



Northwest Atlantic Fisheries Organization

Conservation and Enforcement Measures

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Article 1 - Scope

1. These Measures shall, unless otherwise provided, apply to all fishing vessels used or intended for use for the purposes of commercial fishing activities conducted on fisheries resources in the Regulatory Area as defined in Article I of the NAFO Convention.
2. Unless otherwise provided, research vessels shall not be restricted by conservation and management measures pertaining to the taking of fish, in particular, concerning mesh size, size limits, closed areas and seasons.

Article 2 - Definitions

1. "fishing vessel" means any vessel which is or has been engaged in fishing activities, including fish processing vessels and vessels engaged in transshipment or any other activity in preparation for or related to fishing, including experimental or exploratory fishing;
2. "research vessel" means any permanent research vessel or vessel normally engaged in fishing activities or fisheries support activity employed or chartered for fishery research, which has been duly notified to the Executive Secretary;
3. "fishing activities" means fishing, fish processing operations, the transshipment of fish or fish products, and any other activity in preparation for or related to fishing in the Regulatory Area.
4. "inspector" means an inspector of the fishery control services of the Contracting Parties assigned to the Joint Inspection and Surveillance Scheme in Chapter IV.
5. "fishing trip" means the time beginning when the vessels enters the Regulatory Area and ending when the vessel leaves the Regulatory Area and all catch on board from the Regulatory Area is unloaded or transhipped.

Chapter 1

CONSERVATION AND MANAGEMENT MEASURES

Article 3 - Quotas

1. Each Contracting Party shall limit its catches of the stocks listed in Annex I.A so that neither the quota allocated to a Contracting Party nor the quota allocated to "Others" is exceeded.
2. Each Contracting Party to which a quota has been allocated shall close its fishery in the Regulatory Area for the stocks listed in Annex I.A on the date on which the accumulated reported catch, the estimated unreported catch, the estimated quantity to be taken before the closure of the fishery and the likely by-catches during the period to which the quota applies, equal 100 percent of the quota allocated to that Contracting Party. Such Contracting Party shall promptly notify the Executive Secretary of the date on which that Party will close its fishery for the stocks concerned. The Executive Secretary shall promptly inform all other Contracting Parties of such notification.
3. Each Contracting Party which has not been allocated a quota of a particular stock listed in Annex I.A shall be allowed to fish on the quota allocated to "Others". Those Contracting Parties shall notify the Executive Secretary, at least 48 hours in advance of each entry after a minimum of 48 hours of absence from the Regulatory Area, of their vessels intended to fish on such a quota. This notification shall, if possible, be accompanied with an estimate of the projected catch.
4. The Executive Secretary shall notify without delay and by the most rapid electronic means available all Contracting Parties of the date on which the accumulated reported catch, the estimated unreported catch, the estimated quantity to be taken before the closure of the fishery and the likely by-catches during the period to which the quota applies, equal 100 percent of the quota allocated to "Others" in Annex I.A for a particular stock. A vessel is not allowed to start a fishery after the date a notification of closure has been issued by the Secretariat.
5. Each Contracting Party which has not been allocated a quota for a particular stock shall, within 7 days of the date of issue of such electronic notification by the Executive Secretary, close its fishery in the Regulatory Area for that stock, except for by-catches in directed fisheries for other stocks.

Article 4¹ - Cod in Divisions 2J3KL

1. The Fisheries Commission shall obtain annually the decision of Canada on the limit it has established for catches by Canadian fishers. This decision shall take into account the assessment of this stock by the Scientific Council. This limit shall be 95% of the TAC for this stock.
2. The Fisheries Commission shall establish a catch limit in the Regulatory Area that shall apply to the other Contracting Parties. This limit shall be 5% of the TAC for this stock.
3. The total of the catch limits set in accordance with paragraphs 1 and 2 shall constitute the TAC for 2J3KL cod.
4. The distribution key that shall apply for the 5% figure when the fishery in the Regulatory Area is resumed shall be 65.4% for the EU and 34.6% for the other Contracting Parties.

The measures in this article shall apply when a decision is taken to allow the resumption of fishing for cod in the Regulatory Area and is valid until 31 December 2005.

Article 5 - Shrimp in Division 3M

1. Each Contracting Party shall limit its shrimp fishing activities in Division 3M in accordance with Annex I B. With regard to shrimp, Division 3M shall be understood to mean Division 3M as well as that portion of Division 3L defined below (see also map in Fig. 1(1) in Article 12).

Point No.	Latitude	Longitude
1	47°20'0	46°40'0
2	47°20'0	46°30'0
3	46°00'0	46°30'0
4	46°00'0	46°40'0

2. Each Contracting Party with a track record in the period from 1 January 1993 to 31 August 1995 is permitted a minimum level of 400 fishing days per year. Each Contracting Party with no track record in this fishery in this period may fish for shrimp with one vessel for 100 fishing days per year.
3. Each Contracting Party shall closely monitor its vessels fishing shrimp in Division 3M and shall close its fishery when the number of fishing days available to that Party is exhausted. The number of fishing days shall be counted from vessel monitoring system (hereinafter "VMS") reports and shall include the days of entry into and exit from Division 3M. If a vessel is fishing for shrimp and other species on the same trip, the change of fishery shall be signalled and the number of fishing days counted accordingly.
4. Fishing days referred to in this Article are not transferable between Contracting Parties. Fishing days of one Contracting Party may only be utilised by a vessel flying the flag of another Contracting Party under the conditions laid down in Article 14.

Article 6 - Shrimp in Division 3L

1. With regard to shrimp, Division 3L shall be understood to mean Division 3L except that portion of 3L adjacent to Division 3M defined by footnote in Article 5 and Figure 1 in Article 12.
2. The quota allocated to Canada shall be fished within the Canadian zone. The remaining quota shall be allocated within the Regulatory Area between all other Contracting Parties.
3. Contracting Parties shall not conduct exploratory or research fisheries which take catch beyond the quota allocated to the Contracting Party.

¹ The measures in this article shall not serve as a precedent in future years for the fixation of catch limits or the criteria for quota distribution of stocks of other species.

Article 7 - Greenland halibut in Subarea 2 and Divisions 3KLMNO

1. Contracting Parties shall implement a fifteen-year rebuilding programme for the Greenland halibut stock in Subarea 2 and Divisions 3KLMNO.
2. The objective of this programme shall be to attain a level of exploitable biomass 5+ of 140,000 tonnes on average, allowing a stable yield over the long term in the Greenland halibut fishery.
3. For this purpose, a total allowable catch for the following years is established as follows:
 - 2004: 20,000 tonnes
 - 2005: 19,000 tonnes
 - 2006: 18,500 tonnes
 - 2007: 16,000 tonnes

The total allowable catch for subsequent years shall be established taking into account the progress made in the rebuilding of the stock.

4. The Scientific Council shall monitor and review the progress of the programme and submit each year an assessment thereon to the Fisheries Commission.
5. The total allowable catch from 2008 onwards may be adjusted by the Scientific Council advice. However, the total allowable catch shall not be set at levels beyond 15% less or greater than the total allowable catch of the preceding year.
6. The following specific measures shall be applicable with regard to the Greenland halibut fishery in Subarea 2 and Divisions 3KLMNO in respect of vessels 24 meters in length or greater:
 - a) Contracting Parties shall issue specific authorisations to vessels fishing for Greenland halibut (hereafter referred to as 'authorised vessels') and shall transmit the list of such vessels to the NAFO Secretariat.
 - b) Each Contracting Party shall allocate its quota for Greenland halibut among its authorised vessels.
 - c) Authorised vessels may only land Greenland halibut catch in ports designated by NAFO Contracting Parties. Landings in ports of non-Contracting Parties shall be prohibited.

Each landing shall be submitted to inspection in port. The corresponding port inspection report shall be transmitted to the NAFO Secretariat within 7 working days from the date at which the inspection was completed.
 - d) Contracting Parties shall implement a catch reporting regime that ensures effective monitoring of the utilisation of each vessel's quota.
7. Each Contracting Party shall adjust fishing effort commensurate with the available fishing opportunities.
8. In reviewing the implementation of this rebuilding plan, the Fisheries Commission may decide on additional measures to ensure the effective attainment of its objective.
9. Contracting Parties shall prohibit landings from non-Contracting Party vessels that have engaged in fishing activities in the Regulatory Area.
10. Contracting Parties fishing on the Others quota shall be subject to the notification and reporting requirements pursuant to Article 3, paragraph 3 and Article 20, paragraph 3 of the Conservation and Enforcement Measures.

Article 8 - Quota Adjustments

1. When information satisfactory to the Executive Secretary indicates that there are reasonable grounds for believing that a quota of a Contracting Party has been taken, he shall within one working day inform that Contracting Party. Should that Contracting Party fail within 15 days either to cease fishing or to demonstrate that the quota has not been taken, the Executive Secretary shall so report without delay to the Fisheries Commission.
2. When the Fisheries Commission finds that vessels of a Contracting Party have taken more than the quota allocated to that Contracting Party, the Commission may adjust the corresponding quota for that Contracting Party in a succeeding quota period.

3. When the Fisheries Commission finds that a Contracting Party, contrary to the provisions of Article 3, has fished on a quota allocated to “Others” without reporting its intention to fish on that quota, failed to report its catches taken under such a quota, or continued a directed fishery under such quota after this fishery had been closed, the Commission may propose measures to compensate for damage caused to the stock. Such measures may include adjustments to quotas or the establishment of new quotas for that Contracting Party as appropriate.
4. Quota adjustments shall be made during the determination by the Fisheries Commission of relevant quotas for the following quota period, and shall not result in an increase in any other quota for the Contracting Party to which the quota adjustment applies. Any quota adjustment shall not result in an increase in the relevant quota for any other Contracting Party, unless the Commission determines that the increase will not cause further harm to the stock.

Article 9 - By-catch Requirements

1. Masters shall not conduct directed fisheries for species for which by-catch limits apply. A directed fishery for a species is conducted when that species comprises the largest percentage by weight of the catch in any one haul.
2. Vessels of a Contracting Party shall limit their by-catch to a maximum of 2500kg or 10%, whichever is the greater, for each species listed in Annex I for which no quota has been allocated in that division to that Contracting Party.
3. In cases where a ban on fishing is in force or an “Others” quota has been fully utilised, by-catches of the species concerned may not exceed 1250 kg or 5%, whichever is the greater.
4. If the percentages of by-catches foreseen in paragraphs 2 and 3 are exceeded in any one haul, the vessel must immediately move a minimum of 5 nautical miles from any position of the previous haul. If any future haul exceeds these by-catch limits, the vessel shall again immediately move a minimum 5 nautical miles from any position of the previous hauls and shall not return to the area for at least 48 hours.
5. In the event that total by-catches of all groundfish species subject to quota in any haul in the shrimp fishery exceed 5% by weight in Division 3M or 2.5% by weight in Division 3L, the vessel must move a minimum of 5 nautical miles from the position of the previous haul.
6. The percentages in paragraphs 2 and 3 are calculated as the percentage, by weight, for each species of the total catch retained onboard. Catches of shrimp shall not be included in the calculation of by-catch levels of groundfish species.

Article 10 - Gear Requirements

1. Minimum authorised mesh sizes shall be as follows:
 - a) 40 mm for shrimps and prawns;
 - b) 60 mm for short finned squid (*Illex*);
 - c) 280 mm in the codend and 220 mm in all other parts of the trawl for skate; and
 - d) 130 mm for groundfish.
2. Meshes shall be measured in accordance with Annex XIV.
3. Vessels conducting a directed fishery for species other than those identified in paragraph 1 are however permitted to take regulated species with nets having a mesh size less than specified in paragraph 1, provided that the by-catch requirements in Article 9, paragraph 2 are complied with.
4. Vessels which fish in areas outside the Regulatory Area may retain on board nets with a mesh size smaller than that prescribed in paragraph 1, provided that these nets are securely lashed and stowed and are not available for immediate use.
5. Strengthening ropes, splitting straps and codend floats may be used on trawls, as long as these attachments do not in any way restrict the authorized mesh or obstruct the mesh opening.
6. Vessels shall not use any means or device which would obstruct the meshes or diminish the size of the meshes. However, vessels may attach devices described in Annex XV to the upperside of the codend in such a manner that they will not obstruct the meshes of the

codend inclusive of any lengthener(s). In addition, canvas, netting or other material may be attached to the underside of the codend of a net to reduce and prevent damage.

- Vessels fishing for shrimp in Divisions 3L or 3M shall use sorting grids or grates with a maximum bar spacing of 22 mm. Vessels fishing for shrimp in Division 3L shall also be equipped with toggle chains of a minimum 72 cm in length.

Article 11 - Minimum Fish Size Requirements

- Vessels shall not retain on board any fish of a species for which minimum fish size requirements apply in accordance with Annex III. If the amount of undersized fish in any one haul exceeds 10% by number, the vessel shall immediately move a minimum 5 nautical miles from any position of the previous haul.
- Undersized fish shall not be processed, transhipped, landed, transported, stored, displayed or offered for sale, but shall be returned immediately to the sea. Any processed fish for which minimum fish size requirements apply which is below a length equivalent in Annex III shall be deemed to originate from fish that is below the minimum fish size.
- Notwithstanding paragraphs 1 and 2, Canadian vessels shall abide by their equivalent national regulations, which require landing of all catches.

Article 12 - Area and Time Restrictions

- Fishing for shrimp is prohibited between 00.01GMT on the first date and 24.00 GMT on the last date of the following periods:

Area	Fishing is prohibited
3M*	1. June – 31. December
3L*	1. April – 30. June 15. September – 30. November

*as defined by Article 12..2 and 12.3

- All fishing for shrimp in Division 3L shall take place in depths greater than 200 meters and shall be limited at any one time to one vessel per each flag state Contracting Party’s allocation. The fishery in the Regulatory Area shall be restricted to an area east of a line bound by the following co-ordinates: 46°00’N/47°53’W, 46°40’N/47°20’W, 47°19’N/47°43’W.
- The closed area in Division 3M is defined by figure 1(2):

(1) Point No.	Latitude	Longitude	(2) Point No.	Latitude	Longitude
1	47°20'0	46°40'0	1 (same as no. 7)	47°55'0	45°00'0
2	47°20'0	46°30'0	2	47°30'0	44°15'0
3	46°00'0	46°30'0	3	46°55'0	44°15'0
4	46°00'0	46°40'0	4	46°35'0	44°30'0
			5	46°35'0	45°40'0
			6	47°30'0	45°40'0
			7 (same as no. 1)	47°55'0	45°00'0

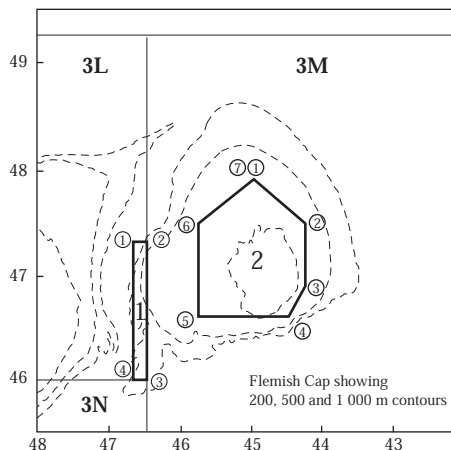


Figure 1. Geographic coordinates of areas in 3L (1) and 3M (2) referred to in Articles 5, 6, and 12.

- Fishing for squid is prohibited between 00.01GMT on the first date and 24.00 GMT on the last date of the following periods:

Area	Fishing is prohibited
3 + 4	1. January – 30. June

Chapter II

CONTROL MEASURES

Article 13 - Authorisation to Fish

Each Contracting Party shall:

- authorise the use of fishing vessels flying its flag for fishing activities under Article 1 only where it is able to exercise effectively its responsibilities in respect of such vessels;
- ensure that only authorised fishing vessels flying its flag conduct fishing activities under Article 1;
- ensure that fishing vessels flying its flag comply with applicable measures adopted under the NAFO Convention.
- undertake to manage the number of authorised fishing vessels and their fishing effort commensurate to the fishing opportunities available to that Contracting Party in the Regulatory Area.

Article 14 - Chartering Arrangements

- A Contracting Party may utilise partly or wholly quota and fishing days allocated to that Party under Annex I by way of a chartering arrangement with a fishing vessel flying the flag of another Contracting Party and notified in accordance with Article 15. Such chartering arrangement must be subject to the consent of the flag State Contracting Party.
- The chartering Contracting Party shall limit such chartering arrangements to one fishing vessel per flag state of the chartering Contracting Party per year and for a limited duration not exceeding 6 months.
- For the purpose of this Article the chartering Contracting Party means the Contracting Party to which the quota and fishing days have been allocated pursuant to Annex 1. The flag state Contracting Party means the Contracting Party in which the chartered vessel is registered.

4. Chartering arrangements involving vessels identified as having been involved in IUU fishing activities pursuant to Chapter VI shall not be permitted.
5. The relevant flag State Contracting Party is responsible for ensuring that the vessel complies with the requirements of these Conservation and Enforcement Measures. This does not nullify the obligations under Chapter I of the chartering Contracting Party to which the quota and fishing days have been allocated originally.
6. When operating under chartering arrangements, the chartered vessels shall not be authorised at the same time to utilize the quota or fishing days of the flag State Contracting Party. The vessel shall not be authorised to fish under more than one chartering arrangement at the same time. Any transshipment at sea shall be previously authorised by the chartering flag state Contracting Party and shall be carried out under the supervision of an observer on board.
7. Chartering Contracting Parties intending to have recourse to such chartering arrangements shall notify prior to commencement of the chartering arrangement the following information to the Executive Secretary:
 - a) the name and registration of the chartered vessel and the relevant flag Contracting Party;
 - b) previous name(s) and flag state(s) of the vessel, if any;
 - c) the name and address of the owner(s) and operators of the vessel;
 - d) a copy of the chartering and the fishing licence issued by the chartering Contracting Party;
 - e) the fishing possibilities concerned;
 - f) the date as from which the vessel is authorised to commence fishing on these fishing possibilities; and
 - g) the duration of the chartering arrangement.
8. The relevant flag State Contracting Party shall notify in writing its consent to the Executive Secretary.
9. The Executive Secretary shall verify upon receipt of all required documentation that the chartering arrangements fulfill the conditions referred to in paragraphs 2 and 4. The Executive Secretary shall then circulate this documentation without delay to Contracting Parties, indicating the date at which the chartering arrangement becomes effective.
10. Both the chartering Contracting Party and the flag State Contracting Party shall inform the Executive Secretary of the termination of the chartering arrangement and the beginning and ending of fishing operations under it.
11. All catches and by-catches from notified chartering arrangements shall be recorded by the relevant chartering and flag State Contracting Party separate from other national catch data recorded pursuant to Article 19. They shall be reported to the Contracting Party to which the fishing possibilities have been allocated and to the Executive Secretary, separately from other national catch data pursuant to Article 20. The Executive Secretary shall add these catches to the catch statistics of the Contracting Party to which the fishing possibilities were originally allocated.
12. The chartering Contracting Party shall report to the Executive Secretary by 1 July each year, and for the previous calendar year, all relevant information concerning the implementation of chartering arrangements notified under this Article, including information on catches taken and fishing effort deployed by the chartered vessel.
13. The Executive Secretary shall by 15 August each year submit a report to the Fisheries Commission providing an overview of chartering arrangements and their compliance with the provisions of this Article. The Fisheries Commission shall, on the basis of this report, review compliance with the provisions of this Article at each Annual Meeting.

Article 15 - Vessel Register

1. The Executive Secretary shall establish and maintain a register of all fishing vessels of more than 50 gross tons authorised to fish in the Regulatory Area. Fishing vessels not entered into this register are deemed not to be authorised to fish in the Regulatory Area. Contracting Parties shall by 1 January 2004 notify the list vessels which are authorised to operate in the Regulatory Area. The notification shall be made in a electronic form and in accordance with the format prescribed in Annex IV, Section A.
2. Vessels subject to bare boat chartering shall be notified to the Executive Secretary by the flag Contracting Party at the latest one month prior to the departure of the vessel from its home port. The notification shall be made in a electronic form and in accordance with the

format prescribed in Annex IV, Section A. Each Contracting Party shall notify the Executive Secretary of any modification to this information within 30 days of the modification.

3. Contracting Parties shall notify the Executive Secretary prior to the commencement of a fishery research period of all research vessels authorised to conduct research activities in the Regulatory Area. The notification shall be made in a electronic form and in accordance with the format prescribed in Annex IV, Section B.
4. For vessels which are temporarily employed in research only, Contracting Parties shall immediately inform the Executive Secretary when the research activities are concluded. The information transmitted to the Executive Secretary shall be available in the English language aboard the vessel, either in the form of a plan of research or as a copy of the communication to the Executive Secretary.
5. If any changes are made to the plan or period for such vessels referred to in paragraph 4, the revised information shall be given to the Executive Secretary not less than seven days before the effective date of the changes. A record of any changes shall be kept aboard the vessel.
6. Contracting Parties shall promptly notify, after the establishment of the initial register, the Executive Secretary of any addition to, any deletion from and/or any modification of the register at any time such changes occur.
7. The Executive Secretary shall promptly make the register available to all Contracting Parties in a systematic fashion and in accordance with applicable confidentiality requirements. The Executive Secretary shall delete vessels in the register which have not been active in the Regulatory Area for two consecutive years.

Article 16 - Vessel Requirements

1. Fishing vessels shall be marked in such a way that they can be readily identified in accordance with internationally accepted standards, such as the FAO Standard Specifications for the Marking and Identification of Fishing Vessels.
2. Fishing vessels over 10 metres in length shall carry on board documents issued by the competent authority of the State in which it is registered showing at least the elements referred to in Annex VII.
3. Fishing vessels over 17 metres in length which freeze or salt fish shall keep on board up-to-date drawings or descriptions of their fish rooms, including an indication of their storage capacity in cubic metres.
4. Any modification to the documents referred to in paragraphs 2 and 3 shall be certified by the competent authority of the State in which the vessel is registered and clearly explained.

Article 17 - Marking of Gear

1. Gear used by fishing vessels shall be marked in accordance with international standards, in particular the Convention on conduct of Fishing operations in the North Atlantic signed in London on 1 June 1967.
2. Marker buoys and similar objects floating on the surface and intended to indicate the location of fixed fishing gear shall display the registration number of the fishing vessels to which they belong.

Article 18 - Product Labelling Requirements

1. All shrimp harvested in Division 3L shall be packaged and labelled as harvested in this Division.

Chapter III

MONITORING OF FISHERIES

Article 19 - Recording of Catch

1. Fishing vessels shall, on entering the Regulatory Area, have a record in its fishing logbook of the amount of each species of fish retained on board.
2. Fishing vessels shall record their catches on a daily basis. All logbook entries listed in Annex VIII shall be completed in accordance with its instructions using the codes specified therein.
3. The records referred to in paragraphs 1 and 2 shall correspond to the smallest geographical area for which a quota has been allocated, show the disposition of the catch and include any fish off-loaded while the vessel is operating in the Regulatory Area. The records shall be retained aboard the vessel for a period of at least twelve months.
4. Fishing vessels shall either record their cumulative production by species and product form in a production logbook or stow in the hold all processed catch in such a way that each species is stowed separately. A stowage plan shall be maintained showing the location of the products in the hold.

Article 20 - Reporting of Catch and Fishing Effort

1. Each Contracting Party shall report its provisional monthly catches by species and stock area, as well as provisional monthly fishing days in the shrimp fishery, whether or not that Party has quota allocations for the stocks from which catches were obtained. These reports shall be sent to the Executive Secretary within 30 days of the end of the calendar month in which the catches were made.
2. The Executive Secretary shall, within 10 days following the monthly deadlines for receipt of the provisional catch statistics, collate the information received and circulate it together with aggregate catch statistics by stock area to Contracting Parties.
3. Contracting Parties whose vessels are fishing on an "Others" quota in accordance with Article 3 paragraph 3 shall report to the Executive Secretary, at 48-hour intervals, the catches taken by their vessels on such quotas.
4. Contracting Parties shall daily notify the Executive Secretary of shrimp catches taken by its vessels in Division 3L. The Executive Secretary shall forward this information to Contracting Parties with an inspection presence.

Article 21 - Vessel Monitoring System (VMS)

1. In order to improve and maintain compliance with the Conservation and Enforcement Measures for their vessels fishing in the Regulatory Area, fishing vessels operating in the Regulatory Area shall be equipped with a satellite monitoring device allowing the continuous reporting of their position by the Contracting Party. The satellite monitoring device shall ensure the automatic communication at least once every two hours to a land-based fisheries monitoring centre of the flag state (hereafter referred to as FMC) of data relating to:
 - a) the vessel identification;
 - b) the most recent geographical position of the vessel (longitude, latitude) with a position error which shall be less than 500 metres, with a confidence interval of 99%; and
 - c) the date and time of the fixing of the said position of the vessel.

The first transmitted position report in the Regulatory Area detected by the FMC of the Contracting Party shall be identified as "ENT". All subsequent position reports shall be identified as "POS" except the first position report detected outside the Regulatory Area which shall be identified as "EXT".

If a Contracting Party so requests, the Secretariat shall confirm receipt of all electronic reports using a return message identified as "RET".

2. Each Contracting Party shall take the necessary measures to ensure that its FMC receives these data. The FMC of each Contracting Party shall be equipped with computer hardware and software enabling automatic data processing and electronic data transmission. Each Contracting Party shall provide for back-up and recovery procedures in case of system failures and shall take the necessary measures to ensure that the data received from its fishing vessels are recorded in computer readable form for a period of three years.
3. The masters of fishing vessels shall ensure that the satellite monitoring devices are at all times fully operational and that the information in paragraph 1 is transmitted to the FMC. In the event of a technical failure or non-operation of the satellite monitoring device fitted on board a fishing vessel, the device shall be repaired or replaced within one month. After this period, the master of a fishing vessel shall not be authorised to commence a fishing trip with a defective satellite monitoring device. Where a device stops functioning and a fishing trip lasts more than one month, the repair or the replacement has to take place as soon as the vessel enters a port and the fishing vessel shall not be authorised to continue or commence a fishing trip without the satellite monitoring device having been repaired or replaced.
4. Contracting Parties shall take the necessary measures to ensure that the master or the owner of the vessel or their representative is informed when the satellite tracking device fitted on board a vessel flying their flag appears to be defective or non-functioning.
5. Fishing vessels with a defective satellite monitoring device shall communicate, at least every 6 hours, reports containing the information in paragraph 1 to the FMC, by other means of communication (email, radio, facsimile or telex).
6. Contracting Parties shall communicate reports and messages pursuant to paragraphs 1 and 5 to the Executive Secretary as soon as possible, but not later than 24 hours after receipt of those reports and messages. If the Contracting Party so desires, its fishing vessels shall communicate reports (by satellite, email, radio, facsimile or telex) to the Executive Secretary. When the Executive Secretary has not received two consecutive position reports in accordance with paragraphs 1 and 5 and the vessel concerned has not reported that it has left the Regulatory Area the Executive Secretary shall automatically notify the FMC of the flag Contracting Party.
7. Contracting Parties shall ensure that the reports and messages transmitted between the Contracting Party and the Executive Secretary or between its fishing vessels and the Executive Secretary, shall be in accordance with the data exchange format set out in Annex IX.
8. The Executive Secretary shall make available as soon as possible the information received under paragraph 6 to other Contracting Parties with an inspection presence in the Regulatory Area. All reports and messages shall be treated in a confidential manner.
9. When an inspector observes a fishing vessel in the Regulatory Area and has not received data in accordance with paragraphs 1 or 5 he/she shall inform the master of the vessel and the Executive Secretary, who shall immediately inform the flag Contracting Party of the vessel.
10. Contracting Parties shall notify any changes of the name, address, telephone, telex, email and facsimile numbers of their competent authorities to the Executive Secretary without delay.
11. Subject to any other arrangements between Contracting Parties, each Contracting Party shall pay all costs associated with this system.
12. The elements of the VMS program are subject to review and revision, as appropriate, for application in 2004 and subsequent years.

Article 22 - Communication of Catches

1. Fishing vessels shall communicate electronically via the FMC to the Secretariat the following reports:
 - a) catch on entry into the Regulatory Area. This report shall be made at least six (6) hours in advance of the vessel's entry and shall include the date, time, geographical position of the vessel, total round weight by species (3 alpha codes) on board in kilograms (rounded to the nearest 100 kilograms) and directed species. This report shall be identified as COE;
 - b) catch on exit from the Regulatory Area. This report shall be at least six (6) hours in advance of the vessel's exit and shall include the date, time, geographical position of the vessel and catch in round weight taken and retained in the Regulatory Area by species (3 alpha codes) in kg (rounded to nearest 100 kilograms). This report shall be identified as COX;
 - c) each transshipment in the Regulatory Area. This report shall be made at least twenty-four (24) hours in advance and shall include the date, time, geographical position of the vessel and total round weight by species (3 alpha codes) to be transhipped in kilograms (rounded to the nearest 100 kilograms) and the call signs of vessels transhipped to and from. This report shall be identified as TRA;

- d) The total quantity of species reported under a), b) and c) for which the total round weight by species is less than one ton may be reported under the 3 alpha code “MZZ” (marine fish not specified).
2. Competent authorities of each Contracting Party shall automatically transmit the information referred to in paragraph 1 to the Executive Secretary. The Executive Secretary shall transmit the information to other Contracting Parties with an inspection presence in the Regulatory Area as soon as possible and shall ensure that all such transmissions are numbered sequentially for each Contracting Party. These reports are to be treated in accordance with Annex XX.

If a Contracting Party so requests, the Secretariat shall confirm receipt of all electronic reports using a return message identified as “RET” according to the data exchange format in Annex IX.

3. For vessels that fish shrimp in Division 3L, each entry and exit from Division 3L shall require 24-hour prior notification to the Executive Secretary. All shrimp on board shall be reported to the Executive Secretary on entry and exit.
4. Contracting Parties shall ensure that the reports and messages transmitted between the Contracting Party and the Executive Secretary or between its fishing vessels and the Executive Secretary, shall be in accordance with the data exchange format set out in Annex X.

The sequence of messages under Article 21 and this article shall be as follows:

Report:	Code:	Remarks:
Catch on Entry	COE	6 hours in advance of the vessels entry into the Regulatory Area.
Entry	ENT	The first position report from a vessel detected to be inside the Regulatory Area.
Position	POS	Position report every 2 hours
Transshipment	TRA	As relevant
Catch on Exit	COX	6 hours in advance of the vessels departure from the Regulatory Area
Exit	EXI	The first position report from a vessel detected to be outside the Regulatory Area

Article 23 - Observer Program

1. In order to improve and maintain compliance with the Conservation and Enforcement Measures for their vessels fishing in the Regulatory Area, all fishing vessels shall carry at least one observer at all times while fishing in the Regulatory Area. Contracting Parties shall have the primary responsibility to obtain independent and impartial observers and shall take all necessary measures to ensure that observers are able to carry out their duties. Observers are not to perform duties, other than those described in paragraphs 4, 5 and 6 below. Subject to any other arrangements between the relevant Contracting Parties, the salary of an observer shall be covered by the sending Contracting Party.
2. In cases where a Contracting Party has not placed an observer on a vessel, any other Contracting Party may, subject to the consent of the Contracting Party of the vessel, place an observer on board until that Contracting Party provides a replacement in accordance with paragraph 1.
3. Contracting Parties shall provide to the Executive Secretary a list of the observers they will be placing on their vessels.
4. Observers shall:
- a) monitor a vessel's compliance with the relevant Conservation and Enforcement Measures. In particular they shall:
 - (i) record and report upon the fishing activities of the vessel and verify the position of the vessel when engaged in fishing;
 - (ii) observe and estimate catches with a view to identifying catch composition and monitoring discards, by-catches and the taking of undersized fish;
 - (iii) record the gear type, mesh size and attachments employed by the master; and
 - (iv) verify entries made to the logbooks (species composition and quantities, live and processed weight, hail and VMS reports).

- b) collect catch and effort data for each haul. This data shall include location (latitude/longitude), depth, time of net on the bottom, catch composition and discards; in particular the observer shall collect the data on discards and retained undersized fish as outlined in the protocol developed by the Scientific Council;
 - c) carry out such scientific work (for example, collecting samples) as requested by the Fisheries Commission based on the advice of the Scientific Council; and
 - d) monitor the functioning of and report upon any interference with the satellite tracking system. In order to better distinguish fishing operations from steaming and to contribute to an a posteriori calibration of the signals registered by the receiving station, the observer shall maintain detailed reports on the daily activity of the vessel.
5. When an infringement of the Conservation and Enforcement Measures is identified by an observer, the observer shall, within 24 hours, report it to an inspection vessel using an established code, which shall report it to the Executive Secretary.
 6. The observer shall within 30 days following completion of an assignment provide a report to the Contracting Party of the vessel and to the Executive Secretary, who shall make the report available to any Contracting Party that so requests. Copies of reports made available to other Contracting Parties shall not include location of catch in latitude and longitude as required under paragraph 4 b), but shall include daily totals of catch by species and division.
 7. The vessel on which an observer is placed shall provide suitable food and lodging during the observer's deployment. Vessel masters shall ensure that all necessary co-operation is extended to observers in order for them to carry out their duties including providing access, as required, to the retained catch, and catch which is intended to be discarded.
 8. The elements of the Observer Program are subject to review and revision, as appropriate, for application in 2005 and subsequent years.

Chapter IV

JOINT INSPECTION AND SURVEILLANCE SCHEME

Article 24 - General Provisions

1. Inspection and surveillance shall be carried out by inspectors of the fishery control services of Contracting Parties following their assignment to the Joint Inspection and Surveillance Scheme (hereinafter "Scheme").
2. The competent authorities of Contracting Parties with an inspection/surveillance presence in the Regulatory Area shall provide inspection vessels entering this Area with a list of sightings and boardings, including dates and positions, which have been conducted in the previous ten-day period and other relevant information, as appropriate.
3. Inspection vessels operating in the Regulatory Area shall maintain contact, as far as possible on a daily basis, and with due regard to radio security, in order to exchange information on boarding's/sightings or other relevant information and to co-ordinate their activities.
4. An inspector visiting a vessel engaged in research shall note the status of the vessel, and shall limit any inspection procedures to those procedures necessary to ascertain that the vessel is not conducting a commercial fishing operation.
5. Following notification to the Executive Secretary, and in the case of mutual agreement between the respective Contracting Parties, inspectors assigned by one Party may be placed on board inspection vessels or aircraft of another Party assigned to the scheme.
6. Contracting Parties shall aim at ensuring equal treatment between all Contracting Parties with vessels operating in the Regulatory Area through an equitable distribution of inspections. The number of inspections carried out by a Contracting Party on vessels of any other Contracting Party shall, as far as possible, reflect the ratio of the inspected Party's fishing activity to the total fishing activity in the Regulatory Area per quarter. This ratio shall be measured on the basis of, inter alia, the level of catches and vessel days on ground and shall also take into account compliance records. The Executive Secretary shall draw up an annual report on the objectivity in the realisation and distribution of inspections between the Contracting Parties.
7. For the purposes of receiving and responding to, without delay, notice of infringements, a Contracting Party with more than 15 fishing vessels operating at any one time in the Regulatory Area shall, during that time:

- a) have an inspector or other competent authority present in the Regulatory Area; or
 - b) have a competent authority present in a country of a Contracting Party adjacent to the Convention Area.
8. The use of arms in relation to the inspection is prohibited and, in particular, the inspectors shall not carry arms. However, the prohibition on carrying or using arms shall not apply to inspections by a Contracting Party of vessels flying its own flag.
 9. Without compromising their ability to conduct inspections, inspectors shall minimise the interference and inconvenience to the vessel, its activities and catch. Inspectors shall take all appropriate precautions to avoid causing damage to packaging, wrapping, cartons or other containers and to the contents of same in order to ensure, to the extent practicable, that the quality of the catch on board is maintained. Cartons and other containers shall be opened in such a way that will facilitate their prompt resealing, repacking and eventual re-storage.

Article 25 - Notification Requirements

1. Contracting Parties shall notify the Executive Secretary by 1 November each year of the names of the inspectors, inspector trainees and inspection vessels, type of helicopters or other aircraft which they are assigning to this Scheme in accordance with this Article. This notification shall include the name, the radio call sign and communication capacity for the inspection vessels and the call sign for helicopter and aircraft. Modifications to such notifications shall be communicated to the Executive Secretary with two months notice whenever possible.
2. Inspection vessels and aircraft shall immediately notify the Executive Secretary, by the most rapid electronic means available, of the date and time of commencing and terminating their duties under the scheme. In each case, these times shall be entered in the aircraft's or ship's log or its equivalent. In cases where notification is not possible or practicable, these entries shall constitute fulfilment of this requirement.
3. Contracting Parties shall inform the Executive Secretary by 1 November each year of the provisional plans for participation by its inspectors, vessels, helicopters and other aircraft in inspection and surveillance activities for the following calendar year. The Executive Secretary may make suggestions to Contracting Parties for the co-ordination of their operations, including the number of inspectors and the number of vessels, helicopters and other aircraft carrying inspectors.
4. The Executive Secretary shall circulate the substance of the notifications received from any Contracting Party to all Contracting Parties within 15 days of receipt.
5. Contracting Parties shall notify the Executive Secretary of the names of the authorities competent to receive immediate notice of infringements and the means by which they may receive and respond to communications.

Article 26 - Inspectors

1. Each inspector or inspector trainee shall carry a document of identity issued by the Executive Secretary in accordance with Annex XVI and produce this document upon boarding a vessel.
2. When carrying out their duties under this Scheme, inspectors may not, with respect to vessels under the jurisdiction of other Contracting Parties, enforce laws and regulations related to the zone of the Contracting Party which has assigned them. Inspectors shall carry out their duties in accordance with the rules set out in this Scheme, but they shall remain under the operational control of the authorities of their Contracting Parties and shall be responsible to them.

Article 27 - Surveillance Procedure

1. Surveillance reports shall be based on sightings made by an inspector from an inspection vessel or aircraft assigned to this Scheme.
2. When an inspector observes a vessel of a Contracting Party, and where such observation does not correspond with the latest information available to the inspector in accordance with Articles 21 and 22, the inspector shall complete the Surveillance Report Form in Annex XII. The inspector shall take photographs of the vessel which should record the position, date and time the photograph was taken.
3. The original of each Surveillance Report and any photographs shall without delay be forwarded by electronic transmission to the Contracting Party of the vessel concerned. A copy of every Surveillance Report and photographs shall also be forwarded to the Executive Secretary.

4. Contracting Parties shall, on receipt of a Surveillance Report concerning its vessels, take prompt action to consider the Report and shall, whenever possible, board the vessel concerned and conduct any further investigation necessary to allow it to determine appropriate follow-up action.
5. Each Contracting Party shall report the action taken with regard to Surveillance Reports involving its vessels to the Executive Secretary by 1 March each year for the previous calendar year. The Surveillance Reports shall be listed annually until follow-up action is concluded by the Flag State of the vessel concerned. In cases where the follow-up action results in penal action, any penalties imposed shall be described in specific terms.

Article 28 - Inspection Procedure

1. No boarding shall be conducted without prior notice being sent to the vessel, including the identity of the inspection platform, whether or not such notice is acknowledged as received. The inspection shall be carried out using the inspection report prescribed in Annex XI.
2. When conducting an inspection during daylight hours in conditions of normal visibility, an inspection vessel shall display the pennants depicted in Annex XVII. Boarding vessels shall display one pennant, which may be half-scale.
3. The fishing vessel to be boarded shall not be required to stop or manoeuvre when fishing, shooting or hauling. Where an inspection vessel has signalled that an inspection party is about to commence boarding a fishing vessel which has begun or is about to begin hauling its nets, the master of that fishing vessel shall ensure that the net is not retrieved for a period of 30 minutes after receiving the signal from the inspection vessel.
4. An inspection party shall consist of at maximum two inspectors. Vessel conditions permitting, an inspection trainee may accompany the inspection party for training purposes only. In such circumstances, the inspection party shall, upon arrival on board, identify the trainee to the master of the fishing vessel. This trainee shall simply observe the inspection operation conducted by the authorised inspectors and shall in no way interfere with the activities of the fishing vessel.
5. Inspectors have the authority to examine all relevant areas, decks and rooms of the fishing vessels, processed and unprocessed catches, nets or other gear, equipment, and any relevant documents which inspectors deem necessary to verify compliance with the Conservation and Enforcement Measures.
6. Inspectors shall summarise from logbook records, for the current fishing trip, the vessel's catch in the Regulatory Area by species and by division and shall record this summary in section 14 of the inspection form. The current fishing trip shall not be considered to have ended as long as the vessel has catch on board from the Regulatory Area.
7. Contracting Parties may exercise, by letter to the Executive Secretary, the option to have inspectors summarise from logbook records for a twelve month period, instead of the current fishing trip, their vessel's catch in the Regulatory Area by species and by division and record this summary in section 14 of the inspection form.
8. Inspectors shall convert production weight recordings in the production logbooks into live weight so that the latter can be verified against the logbook entries which are made in live weight. Inspectors shall be guided by conversion factors established by the master of the vessel.
9. The duration of an inspection shall not exceed three hours, or until the net is hauled in and the net and catch are inspected, whichever is longer. This time limitation shall not apply in the case of an infringement.
10. In the case of a difference between the recorded catches and the estimates of the inspector of the catch on board the vessel, the inspector may re-check calculations, procedures, the relevant documentation used to determine the catch summaries from the Regulatory Area and the catch on board the vessel. Any such differences shall be duly noted in section 17 of the inspection report. The inspector shall leave the vessel within one hour following the completion of the original inspection.
11. The inspection report may be commented upon and shall be signed by all the persons that the form requires. A copy of the report shall be given to the master of the vessel.
12. Each Contracting Party shall ensure that its inspection platforms are kept at a safe distance from fishing vessels and that its inspectors respect the provisions of this Scheme as well as any other applicable rules of international law.

Article 29 - Obligations of Vessel Masters During Inspection

1. The master of a fishing vessel shall:
 - a) facilitate boarding as soon as possible in accordance with good seamanship when given the appropriate signal in the International Code of Signals by a vessel or helicopter carrying an inspector;
 - b) facilitate the work of the inspector, in particular give access to registration documents, drawings or descriptions of their fish rooms, production logbooks or stowage plans and give such assistance as is possible and reasonable and necessary to ascertain that the stowage conforms to the stowage plan, no interference being allowed in the stowage of product or in the technological process on the vessel;
 - c) provide a boarding ladder which is in conformity with recommendations concerning pilot ladders adopted by the International Maritime Organisation.

Article 30 - Inspection Reports

1. The original of the inspection reports shall be transmitted within 30 days, whenever possible, to the Contracting Party for the inspected vessel.
2. In case of an infringement or a difference between recorded catches and the inspector's estimates of the catches on board, a copy of the inspection report with supporting documents, including second photographs taken, shall be transmitted to the Contracting Party for the inspected vessel. This documentation shall be transmitted within 10 days after the inspection vessel returns to port.
3. The inspectors shall also within 24 hours transmit to the Contracting Party of the inspected vessel a written statement which shall constitute advance notification of the infringement. This statement shall quote the information entered under points 16, 18 and 20 of the inspection report, cite the relevant measures and describe in detail the basis for issuing the citation for an infringement and the evidence in support of the citation.
4. A copy of all documents referred to in paragraphs 1-3 shall be transmitted to the Executive Secretary by the inspecting Contracting Party. The Executive Secretary and the Contracting Parties shall treat this information with the confidentiality required for the protection of individual data.
5. Contracting Parties inspecting vessels shall provide notification of a list of vessels inspected on a calendar monthly basis to the Contracting Parties of the vessels inspected. This list shall be transmitted via the Executive Secretary.

Article 31 - Procedures to deal with Infringements

1. If an inspector observes an infringement of the Conservation and Enforcement Measures, the inspector shall:
 - a) note the infringement in the inspection report, sign the entry and obtain the countersignature of the master;
 - b) enter and sign a notation in the fishing logbook or other relevant document stating the date, location, and type of infringement found. The inspector may make a copy of any relevant entry in such a document and require the master of the vessel to certify in writing on each page of the copy that it is a true copy of such entry;
 - c) if necessary, document the infringement with photographs of the gear or catch. The inspectors shall in such case give one photograph to the master of the vessel and attach a second photograph to the report sent to the Contracting Party for the inspected vessel.
2. The inspector may request that the master remove any part of the fishing gear which appears to the inspector to be contrary to the Conservation and Enforcement Measures. The inspection seal depicted in Annex XVIII shall be affixed securely to any part of the fishing gear which appears to the inspector to have been in contravention, and the inspector shall record the fact in the report. The gear shall be preserved with the seal attached until examined by an inspector or competent authority of the Contracting Party for the inspected vessel who shall determine the subsequent disposition of the gear.

Article 32 - Serious Infringements

1. The following infringements shall be considered serious:
 - a) fishing on an "Others" quota without prior notification to the Executive Secretary, or more than seven working days after the notification by the Executive Secretary that fishing under an "Others" quota for that stock or species was closed (Article 3).
 - b) directed fishing for a stock which is subject to a moratorium or for which fishing is prohibited (Article 9);
 - c) directed fishing for stocks or species after the date on which the Contracting Party for the inspected vessel has notified the Executive Secretary that vessels of that party will cease a directed fishery for those stocks or species (Article 3);
 - d) fishing in a closed area or with gear prohibited in a specific area (Article 12);
 - e) mesh size violations (Article 10);
 - f) fishing without a valid authorisation issued by the flag Contracting Party (Article 13);
 - g) mis-recording of catches (Article 19);
 - h) interference with the satellite monitoring system (Article 21);
 - i) catch communication violations (Article 22);
 - j) preventing inspectors or observers from carrying out their duties (Articles 23 and 29);
2. If an inspector cites a vessel for having committed a serious infringement as listed in paragraph 1, he shall attempt to notify an inspector of the Contracting Party for the inspected vessel or the authority designated in accordance with Article 24, paragraph 7. The master of the inspected vessel shall if needed provide the use of the vessel's communication equipment and operator for messages to be sent out and received for this purpose.
3. The Contracting Party of the vessel shall respond without delay and shall ensure that the vessel concerned is inspected within 72 hours by an inspector authorised by that Contracting Party.
4. The inspector shall take all necessary measures to ensure security and continuity of the evidence, including, as appropriate, sealing the vessel's hold for eventual port inspection. At the request of the inspector, a master shall cease all fishing which appears to the inspector to contravene the measures referred to in paragraph 1.
5. The inspector may remain on board the vessel for the period necessary to provide information to the authorised inspector concerning the infringement. During this time, the inspector shall complete the inspection and, if unable within a reasonable period of time to communicate with an inspector or competent authority of the Contracting Party for the inspected vessel, he shall leave the inspected vessel and communicate as soon as possible with one of them. However, the inspector may remain aboard the inspected vessel provided that he succeeds in establishing communications and that the inspector or competent authority of the Contracting Party for the inspected vessel agrees.
6. As long as the inspector remains aboard, the master may not resume fishing until the inspector is reasonably satisfied, as a result of either the action taken by the vessel's master or the inspector's communication with an inspector or competent authority of the Contracting Party for the inspected vessel, that the infringement will not be repeated.
7. Where justified, the authorities of the Flag State Contracting Party of the vessel concerned shall, where authorised to do so, require the vessel to proceed immediately to a port for a thorough inspection under the authority of the Flag State and in the presence of an inspector from any other Contracting Party which wishes to participate. The master should direct the vessel either to St. John's or Halifax, Canada, or its home port, unless another port is designated by the Flag State. If the vessel is not called to port, the Contracting Party must provide due justification in a timely manner to the Executive Secretary who shall make it available on request to any Contracting Party.
8. When a vessel is required to proceed to port pursuant to paragraph 7, an inspector from another Contracting Party may, subject to the consent of the Contracting Party of the vessel, board and remain on board the vessel as it is proceeding to port.

9. When an inspector cites a vessel for having committed a serious infringement as listed in paragraph 1, the inspector shall immediately report this to the Executive Secretary, who shall in turn immediately inform other Contracting Parties with an inspection vessel in the Convention Area.

Article 33 - Follow up to Infringements

1. The competent authorities of a Contracting Party notified of an infringement committed by one of its vessels shall take prompt action to conduct the investigations necessary to obtain the evidence required and, whenever possible, inspect the vessel involved. The authorities shall take immediate judicial or administrative action in the same manner as would have been the case when dealing with infringements of fisheries regulations in national waters.
2. The competent authorities of the Contracting Party for the vessel concerned shall co-operate fully with those of the Contracting Party which carried out an inspection to ensure that all evidence of the infringement is prepared and preserved in a form which facilitates judicial action.
3. The provisions in this Chapter shall not impose any obligation on the competent authorities of a Contracting Party to give the report from a foreign inspector a higher evidentiary value than it would possess in the inspector's own country.
4. Resistance to an inspector or failure to comply with his directions shall be treated by the Flag State of the vessel as if the inspector were an inspector of that State.
5. In initiating the action referred to in paragraph 1, second sentence, in respect of vessels notified of an infringement, the competent authorities of the Contracting Party concerned shall seek, in accordance with relevant provisions of national law, measures that effectively deprive those responsible of the economic benefit of the infringement, or sanctions proportionate to the seriousness of such infringements, thus effectively discouraging future infringements.

Article 34 - Treatment of Reports from Inspectors

1. Contracting Parties shall consider and act on reports from inspectors of other Contracting Parties under this Scheme on the same basis as reports from its own inspectors. Contracting Parties shall collaborate in order to facilitate judicial or other proceedings arising from a report submitted by the inspector under the scheme, subject to the rules governing the admissibility of evidence in domestic courts.

Article 35 - Report on Infringements

1. Contracting Parties shall report to the Executive Secretary by 1 February (for the period 1 July – 31 December of the previous year) and 1 September (for the period 1 January – 30 June of the current year) each year:
 - a) action taken concerning infringements notified to it by a Contracting Party. The infringements shall continue to be listed on each subsequent report until the action is concluded under the laws of the Flag State; and
 - b) differences that they consider significant between records of catches in the logbooks of vessels of the Contracting Party and inspectors' estimates of catches on board the vessels.
2. The report referred to in paragraph 1 shall indicate the current status of the case (e.g. case pending, under appeal, still under investigation) and describe in specific terms any penalties imposed (e.g. level of fines, value of forfeited fish and/or gear, written warning given). The report shall include an explanation if no action has been taken.

Article 36 - Reports on Inspection and Surveillance Activities

1. Contracting Parties shall report to the Executive Secretary by 1 March each year for the previous calendar year:
 - a) the number of inspections conducted by it under this Scheme. The report shall specify the number of inspections on the vessels of each Contracting Party and, in the case of infringement, the date and position of the inspection of the named vessel and the nature of the infringement; and
 - b) the number of air hours flown on patrol, the number of sightings and the number of surveillance reports established with the date, time and position of the sightings in respect of these surveillance reports.

Article 37 - Interpretation or Application

1. In the event of a disagreement concerning the interpretation or application of the provisions of this Scheme, the concerned Contracting Parties shall consult in an attempt to resolve the disagreement.
2. If the disagreement remains unresolved following the consultations, the Executive Secretary shall at the request of a Contracting Party refer the disagreement to a special meeting of the Standing Committee on International Control (STACTIC).
3. A report on the disagreement shall be drawn up by STACTIC and forwarded to the Fisheries Commission within two months of the STACTIC meeting.
4. Upon receipt of the STACTIC report, a Contracting Party may within a further period of two months request a special meeting of the Fisheries Commission to consider the report and to take appropriate action.

Chapter V

INSPECTIONS IN PORT

Article 38 - Port Inspection Procedures

1. When, in the port of a Contracting Party, a port call is made by a vessel which has been engaged in fishing for stocks subject to the Conservation and Enforcement Measures, that Contracting Party shall ensure that its inspector is present and that, on each occasion when catch is offloaded, an inspection takes place to verify the species and quantities caught. The port inspection report in Annex XIII shall be used. The Contracting Party shall ensure that the interference in the offloading activity is minimised and that the quality of the catch is not adversely affected.
2. The quantities landed by species and the quantities retained on board, if any, shall be cross-checked with the quantities recorded in logbooks, catch reports on exit from the Regulatory Area, and reports of any inspections carried out under the Scheme.
3. Any information from inspections under Chapter IV shall be verified.
4. Inspections shall include verification of mesh size of nets on board and size of fish retained on board.
5. Results of port inspections shall include at least the information listed in Annex XIII, Section B.
6. The competent authorities of Contracting Parties shall, every two years, check each of their vessels, notified in accordance with Article 15, to certify the correctness of the vessel's plans for fish rooms and other fish storage places. The master shall ensure that a copy of such certification remains on board to be shown to a NAFO inspector if requested.

Article 39 - Transmission of Port Inspection Reports

1. The competent authorities of the Port State shall, on request, transmit the results of the port inspection to the Flag State of the vessel within 14 working days of the date on which the port inspection was completed.
2. A copy of the results of the port inspection shall be transmitted to the Executive Secretary within 30 days as from the date on which the landing was completed and shall be provided to other Contracting Parties on request.
3. Where possible, Contracting Parties should transmit the results of the port inspection in accordance with this paragraph in the format defined in Annex XIII, Section A.

Chapter VI

SCHEME TO PROMOTE COMPLIANCE BY NON-CONTRACTING PARTY VESSELS

Article 40 - Sightings at Sea

1. A Non-Contracting Party vessel which has been sighted engaging in fishing activities in the Regulatory Area is presumed to be undermining the effectiveness of the Conservation and Enforcement Measures of NAFO. In the case of any transshipment activities involving a sighted Non-Contracting Party vessel, inside or outside the Regulatory Area, the presumption of undermining Conservation and Enforcement Measures applies to any other Non-Contracting Party vessel which has engaged in such activities with that vessel.
2. Information regarding such sightings shall be transmitted to the Secretariat. The Surveillance Report provided in Annex XII shall be used. The Secretariat shall then transmit this information to all Contracting Parties within one business day of receiving this information and to the flag-State of the sighted vessel as soon as possible.
3. The Contracting Party which sighted the Non-Contracting Party fishing vessel shall attempt to inform such vessel that it has been sighted engaged in fishing activities in the Regulatory Area and is accordingly presumed to be undermining the Conservation and Enforcement Measures, and that this information will be distributed to all Contracting Parties and to the Flag State of the vessel.

Article 41 - Prohibition of Transshipments

1. Contracting Parties shall ensure that their vessels do not receive transshipments of fish from a Non-Contracting Party vessel which has been sighted and reported as having engaged in fishing activities in the Regulatory Area.

Article 42 - Inspections at Sea

1. If a Non-Contracting Party vessel which has been sighted and reported as engaged in fishing activities in the Regulatory Area consents to be boarded by NAFO inspectors, the findings of the NAFO inspectors shall be transmitted to the Secretariat. The Secretariat shall transmit this information to all Contracting Parties within one business day of receiving this information, and to the flag-State of the boarded vessel as soon as possible. The Non-Contracting Party vessel which is boarded shall be provided with a copy of the findings of the NAFO inspectors.

Article 43 - Inspections in Port

1. When a Non-Contracting Party vessel referred to in Article 40 enters a port of any Contracting Party, it shall be inspected by authorised Contracting Party officials knowledgeable in the Conservation and Enforcement Measures, and shall not land or tranship any fish until this inspection has taken place. Such inspections shall include the vessel's documents, log books, fishing gear, catch on board and any other matter relating to the vessel's activities in the Regulatory Area.
2. Landings and transshipments of all fish from a Non-Contracting Party vessel, which has been inspected pursuant to paragraph 1, shall be prohibited in all Contracting Party ports, if such inspection reveals that the vessel has onboard:
 - (i.) species listed in Annex XIX Section A, unless the vessel establishes that the fish were caught outside the Regulatory Area; or
 - (ii.) other species listed in Annex XIX, Section B, unless the vessel establishes that it has applied the Conservation and Enforcement Measures.
3. Information on the results of all inspections of Non-Contracting Party vessels conducted in the ports of Contracting Parties, and any subsequent action, shall be transmitted immediately through the Secretariat to all Contracting Parties and as soon as possible to the relevant flag-State(s).
4. Nothing in this Scheme affects the exercise by Contracting Parties of their sovereignty over the ports in their territory in accordance with international law.

Article 44 - Final Provisions

1. Each Contracting Party shall report to the Executive Secretary by 1 March each year for the previous calendar year:
 - (i.) the number of inspections of Non-Contracting Party vessels it conducted under the Scheme in its ports, the names of the vessels inspected and their respective flag-State, the dates and ports where the inspection was conducted, and the results of such inspections; and
 - (ii.) where fish are landed or transhipped following an inspection pursuant to the Scheme, the report shall also include the evidence presented pursuant to Article 43, paragraph 2 (i) and (ii).
2. The Executive Secretary shall prepare a report by 1 April each year, for the previous calendar year, based on the periodic reports made by Contracting Parties as called for in this Scheme.
3. The Standing Committee on Fishing Activities of Non-Contracting Parties in the NAFO Regulatory Area (STACFAC) shall review annually the information compiled, actions taken under this Scheme and the operation of the Scheme, and where necessary, recommend to the General Council new measures to enhance the observance of Conservation and Enforcement Measures by Non-Contracting Parties and new procedures to enhance the implementation of the Scheme by Contracting Parties.

Chapter VII

PILOT PROJECT ON OBSERVERS, SATELLITE TRACKING AND ELECTRONIC REPORTING

Article 45 - Scope

1. Only vessels of Contracting Parties with functional VMS systems that have the necessary technical facilities in place to send electronic "observer reports" and "catch reports" are eligible for this pilot project.
2. The total number of vessels in the Regulatory Area at any one time, which are participating in the Pilot Project shall be limited to 20, with the total number of vessels without observers not to exceed 10 at any time. Any Contracting Party shall have no more than 8 vessels participating in the Pilot Project at any one time in the Regulatory Area.
3. Contracting Parties shall notify the Executive Secretary of their intention to participate in the Pilot Project within 30 days following the adoption of the pilot project by the Fisheries Commission. The Pilot Project shall enter into force 60 days following adoption and, should provisionally continue for a period of two years. They shall also notify the Executive Secretary of the maximum number of vessels concerned that would be in the Regulatory Area at any one time. If the number of vessels notified by Contracting Parties exceeds 20 vessels the Executive Secretary, with the agreement of the Chairman of the Fisheries Commission, shall reduce the number without excluding any Contracting Party and advise the relevant Contracting Parties prior to the commencement of the pilot project.
4. Each Contracting Party is entitled to at least one vessel to participate in the Pilot Project at any time.
5. If a Contracting Party does not utilize its right for a vessel to participate or withdraws from the Pilot Project, the right becomes available for another Contracting Party. In such a case, the Contracting Parties with the fewest vessels participating in the Pilot Project at that time shall have priority to choose to utilize the right for a new vessel to participate.

Article 46 - Implementation

1. Participating Contracting Parties should notify the names of the vessels participating in the pilot project to the NAFO Secretariat. Such vessels shall have observers on board in accordance with Article 23 of the NAFO Conservation and Enforcement Measures.
2. However, by way of derogation from these measures a Contracting Party may withdraw observers from vessels participating in the Pilot Project on the condition that the technical facilities on board the vessel necessary to send electronic "observer reports" and "catch reports" have been tested with the NAFO Secretariat and Contracting Parties with an inspection presence in the Regulatory Area.

3. The testing of this exchange shall be deemed successful once data exchanges have been completed with all recipients at a 100% reliability rate.
4. A Contracting Party with one vessel participating in the Pilot Project shall withdraw the observer for no more than 50% of the time that the vessel spends in the Regulatory Area during the year. Other Contracting Parties shall withdraw the observers from no more than 50% of the vessels participating in the Pilot Project that are present in the Regulatory Area.
5. When withdrawing observers Contracting Parties shall ensure that there is a balance between vessels participating in the Pilot Project with observers and without observers, in terms of the type of fishery in which the vessels are engaged.
6. Contracting Parties shall not withdraw observers from vessels with catch onboard when entering the Regulatory Area unless such vessels are subject to an inspection.
7. Participating Contracting Parties shall provide at all times to the NAFO Secretariat the names of vessels participating in the pilot project as well as the period during which they have no observer onboard. The Executive Secretary shall forward this information to all Contracting Parties.
8. In the case where a vessel without an observer is found by an inspector to be engaged in any infringement, the Contracting Party shall apply the provisions of Article 32, paragraphs 2 to 9 of the Scheme, as appropriate, and, when the vessel is not re-routed, it shall embark an observer without delay.
9. In addition to their duties under the Conservation and Enforcement Measures observers on board vessels participating in the Pilot Project shall report daily by electronic channels via the FMC to the NAFO Secretariat ("OBR report") of his duties described in Article 23.4. a) i) to iv) of the Conservation and Enforcement Measures.

Article 47 - Daily Reports

1. Masters of vessels and observers taking part in the Pilot Project shall transmit daily reports by division.
2. The daily reports are to be received by the NAFO Secretariat by 1200 UTC daily. The report period will run from 0001 hours to 2400 hours of the previous day.
3. The catch reported in the daily report of the master will correspond with those recorded in the log.
4. The daily reports shall include as appropriate the amounts, by Division, of the following categories:
 - a) The daily catch by species retained on board
 - b) Discarding
 - c) Undersize fish
5. If the electronic means of transmitting daily reports (to and from FMC) is not functioning, the master and the observer will continue to report daily by other means keeping a written log of these transmissions on board and available to inspectors.
6. The templates for Daily Catch (CAX) and Observer Reports (OBR) are contained in Annex XXI(a).

Article 48 - Data Collection/Compilation/Analysis

1. The Executive Secretary shall collect and compile, on a weekly basis, the data provided by the daily catch reports to compare, among other items, catch rates of species caught by Division, by-catch percentage rate, discard rates for similar fisheries. The details of this data compilation are outlined in Annex XXI (b).
2. The Executive Secretary shall forward this information to Contracting Parties with an inspection presence.
3. The NAFO Secretariat shall monitor the receipt of daily reports from each vessel participating in the pilot. When a report has not been received for 2 consecutive days, the NAFO Secretariat will notify the relevant Contracting Party as well as Contracting Parties with an Inspection Presence.

4. The Executive Secretary shall make available as soon as possible the information received under paragraphs 2 and 3 to other Contracting Parties with an active inspection presence in the Regulatory Area. All reports and messages shall be treated in a confidential manner.

Article 49 - Confidentiality

1. All data submitted under the Pilot Project shall be maintained by the Executive Secretary for the duration of the Pilot Project as well as the assessment period. When assessing this data at the end of the project, the Executive Secretary and STACTIC will ensure confidentiality by replacing vessel names with a neutral identifier. All other confidentiality rules, as outlined in the Conservation and Enforcement Measures, will apply.

Article 50 - Costs

1. Subject to any other arrangements between Contracting Parties, each Contracting Party shall pay all its costs associated with this system.

Article 51 - Follow-up

1. Each Contracting Party (including those with an inspection presence) shall submit an interim report at the first annual meeting of the Fisheries Commission following adoption of the pilot project and a detailed report on the execution of the pilot project containing all necessary information at the annual meeting of the Fisheries Commission following completion of the pilot project. STACTIC supported by the Executive Secretary should evaluate the results of the pilot project at its next meeting on the basis of the criteria set out below as well as the objectives identified, together with any recommendations or proposals:
 - a) Compliance overall and notably comparison between vessels with and without observers.
 - b) Assessment by the Executive Secretary on issues related to data compatibility, data collection/compilation, and data transmission.
 - c) Cost/savings; for the industry; for the authorities of the Contracting Party (including those with an inspection presence); for the NAFO Secretariat.
 - d) Interaction with traditional means of control.
 - e) Technical functioning of the Scheme and reliability.

Annex I.A Annual Quota Table

QUOTA TABLE. Total allowable catches (TACs) and quotas (metric tons) for 2004 of particular stocks in Subareas 1-4 of the NAFO Convention Area. The values listed include quantities to be taken both inside and outside the 200-mile fishing zone, where applicable.

Species	Cod			Redfish			American plaice		Yellow-tail	Witch		Capelin	Greenland halibut	Squid (Illex) ¹	Shrimp	
	3L	3M	3NO	3LN	3M	Sub-area 2 and Div. 1F + 3K	3LNO	3M	3LNO	3L	3NO	3NO	3LMNO	Sub-areas 3+4	3L	3NO
Canada		0	0	0	500	7500 ^{2,4}	0	0	14137 ⁵		0	0	2223	N.S. ⁶	10833	
Cuba		0	-	0	1750	7500 ^{2,4}	-	-	-		-	0	-	510	144	
Denmark (Faroe Islands and Greenland)		0	-	-	69	25000 ^{2,3}	-	-	-		-	-	-	-	144	
European Union		0	0	0	3100	25000 ^{2,3}	0	0	290 ⁵		-	0	8203	N.S. ⁶	144	
France (St Pierre et Miquelon)		-	-	-	69	7500 ^{2,4}	-	-	-		-	-	-	453	144	
Iceland		-	-	-	-	25000 ^{2,3}	-	-	-		-	-	-	-	144	
Japan		-	-	-	400	7500 ^{2,4}	-	-	-		-	0	1519	510	144	
Korea		-	-	-	69	7500 ^{2,4}	-	-	-		-	-	-	453	144	
Norway		0	-	-	-	25000 ^{2,3}	-	-	-		-	0	-	-	144	
Poland		0	-	-	-	25000 ^{2,3}	-	-	-		-	0	-	227	144	
Estonia		0	0	0	1571	7500 ^{2,4}	-	0	-		-	0	-	128	144	
Latvia		0	0	0	1571	7500 ^{2,4}	-	0	-		-	0	-	128	144	
Lithuania		0	0	0	1571	7500 ^{2,4}	-	0	-		-	0	-	128	144	
Russia		0	0	0	9137	25000 ^{2,3}	-	0	-		-	0	1890	749	144	
Ukraine						7500 ^{2,4}									144	
United States of America		-	-	-	69	7500 ^{2,4}	-	-	-		-	-	-	453	144	
Others		0	0	0	124	-	0	0	73 ⁵		0	-	985 ⁷	794	0	
TOTAL ALLOWABLE CATCH	*	*	*8	*8	5000^{9,8}	32500¹¹	*8	*	14500¹⁰	*	*	*8	14820	34000	13000	*

- * Ban on fishing in force – The provisions of Article 9, paragraph 3 shall apply.
1. Any quota listed for squid may be increased by a transfer from any “coastal state” as defined in Article 1, paragraph 3 of the NAFO Convention, provided that the TAC for squid is not exceeded. Transfers made to Contracting Parties conducting fisheries for squid in the Regulatory Area shall be reported to the Executive Secretary, and the report shall be made as promptly as possible.
 2. The Contracting Parties shall notify the Executive Secretary every second week of catches taken by its vessels from this allocation until accumulated reported catch reaches 50%, after which time weekly notification shall apply. The Executive Secretary shall notify without delay all Contracting Parties the dates on which accumulated reported catch taken by vessels of Contracting Parties estimated equal to 50% and then 100% of that allocation.
 3. Quota to be shared by vessels from Denmark (Greenland and Faroe Islands) European Union, Iceland, Norway, Poland and Russia. Catches in the NAFO Convention Area shall be deducted from the quotas allocated in the NEAFC Convention Area. This arrangement applies to 2004 and is without prejudice to sharing arrangements for this stock in future years.
 4. Quota to be shared by vessels from Canada, Cuba, Estonia, France (St Pierre et Miquelon), Japan, Korea, Latvia, Lithuania, Ukraine and USA. This arrangement applies to 2004 and is without prejudice to sharing arrangements for this stock in future years.
 5. Contracting Parties shall inform the Executive Secretary before 1 December 2003 of the measures to be taken to ensure that total catches do not exceed the levels indicated.
 6. The allocation to these Contracting Parties are as yet undetermined, although their sum shall not exceed the difference between the total of allocations to other Contracting Parties and the TAC (= 29458 tons).
 7. Of which no more than 60% (591 t) may be fished before 1 May 2004
 8. Applicable to 2004 and 2005.
 9. Each Contracting Party shall notify the Executive Secretary every second week of catches taken by its vessels from this stock until accumulated reported catch reaches 50%, after which time weekly notification shall apply. Not more than 2500 tons may be fished before July 1, 2004. The Executive Secretary shall notify without delay all Contracting Parties of the date on which, for this stock, accumulated reported catch taken by vessels of the Contracting Parties is estimated to equal 50% and then 100% of the TAC.
 10. The provisions of Article 9, paragraph 3 of the Conservation and Enforcement Measures shall apply.
 11. In the case of the NEAFC decision which modify the level of TAC for Oceanic Redfish in 2004 as compared to 2003, these figures shall be accordingly adjusted.

Annex I.B
Effort Allocation Scheme for Shrimp Fishery in the
NAFO Regulatory Area Div. 3M, 2004

CONTRACTING PARTY	NUMBER OF FISHING DAYS	NUMBER OF VESSELS
Canada	456	16
Cuba	100	1
Denmark		
– Faroe Islands	1606	8
– Greenland	515	14
Estonia	1667	8
European Union	457	13
France (in respect of St Pierre et Miquelon)	100	1
Iceland	N/A	N/A
Japan	100	1
Korea	100	1
Latvia	490	4
Lithuania	579	7
Norway	1985	32
Poland	100	1
Russia	2100	N/A
Ukraine	100	1
USA	100	1

Annex I.C
Rebuilding Plan for 3LMNO Greenland Halibut

Species	Greenland halibut	Greenland halibut	Greenland halibut	Greenland halibut
Division/ Contracting Party	3LMNO 2004	3LMNO 2005	3LMNO 2006	3LMNO 2007
Canada	2223	2112	2056	1778
Cuba	-	-	-	-
Denmark (Faroe Islands and Greenland)	-	-	-	-
European Union	8203	7793	7588	6562
France (St Pierre et Miquelon)	-	-	-	-
Iceland	-	-	-	-
Japan	1519	1443	1405	1215
Korea	-	-	-	-
Norway	-	-	-	-
Poland	-	-	-	-
Estonia	-	-	-	-
Latvia	-	-	-	-
Lithuania	-	-	-	-
Russia	1890	1796	1748	1512
Ukraine	-	-	-	-
United States of America	-	-	-	-
Others	985 ¹	935 ¹	912 ¹	789 ¹
TOTAL ALLOWABLE CATCH	14820	14079	13709	11856

¹ Of which no more than 60% may be fished before 1 May in each year.

Annex II

List of species

Common English Name	Scientific Name	3-Alpha Code	Common English Name	Scientific Name	3-Alpha Code
Groundfish			Groundfish (continued)		
Atlantic Cod	<i>Gadus morhua</i>	COD	Polar cod	<i>Boreogadus saida</i>	POC
Haddock	<i>Melanogrammus aeglefinus</i>	HAD	Roundnose grenadier	<i>Coryphaenoides rupestris</i>	RNG
Atlantic redfishes	<i>Sebastes sp.</i>	RED	Roughhead grenadier	<i>Macrourus berglax</i>	RHG
Golden redfish	<i>Sebastes marinus</i>	REG	Sandeels (=Sand Lances)	<i>Ammodytes sp.</i>	SAN
Beaked redfish (deepwater)	<i>Sebastes mentella</i>	REB	Sculpins	<i>Myoxocephalus sp.</i>	SCU
Acadian redfish	<i>Sebastes fasciatus</i>	REN	Scup	<i>Stenotomus chrysops</i>	SCP
Silver hake	<i>Merluccius bilinearis</i>	HKS	Tautog	<i>Tautoga onitis</i>	TAU
Red hake*	<i>Urophycis chuss</i>	HKR	Tilefish	<i>Lopholatilus chamaeleonticeps</i>	TIL
Pollock (=Saithe)	<i>Pollachius virens</i>	POK	White hake*	<i>Urophycis tenuis</i>	HKW
American plaice	<i>Hippoglossoides platessoides</i>	PLA	Wolffishes (NS)	<i>Anarhicas sp.</i>	CAT
Witch flounder	<i>Glyptocephalus cynoglossus</i>	WIT	Atlantic wolffish	<i>Anarhichas lupus</i>	CAA
Yellowtail flounder	<i>Limanda ferruginea</i>	YEL	Spotted wolffish	<i>Anarhichas minor</i>	CAS
Greenland halibut	<i>Reinhardtius hippoglossoides</i>	GHL	Groundfish (NS)		GRO
Atlantic halibut	<i>Hippoglossus hippoglossus</i>	HAL	Pelagics		
Winter flounder	<i>Pseudopleuronectes americanus</i>	FLW	Atlantic herring	<i>Clupea harengus</i>	HER
Summer flounder	<i>Paralichthys dentatus</i>	FLS	Atlantic mackerel	<i>Scomber scombrus</i>	MAC
Windowpane flounder	<i>Scophthalmus aquosus</i>	FLD	Atlantic butterfish	<i>Peprilus triacanthus</i>	BUT
Flatfishes (NS)	<i>Pleuronectiformes</i>	FLX	Atlantic menhaden	<i>Brevoortia tyrannus</i>	MHA
American angler (=Goosefish)	<i>Lophius americanus</i>	ANG	Atlantic saury	<i>Scomberesox saurus</i>	SAU
Atlantic searobins	<i>Prionotus sp.</i>	SRA	Bay anchovy	<i>Anchoa mitchilli</i>	ANB
Atlantic tomcod	<i>Microgadus tomcod</i>	TOM	Bluefish	<i>Pomatomus saltatrix</i>	BLU
Blue antimora	<i>Antimora rostrata</i>	ANT	Crevalle jack	<i>Caranx hippos</i>	CVJ
Blue whiting	<i>Micromesistius poutassou</i>	WHB	Frigate tuna	<i>Auxis thazard</i>	FRI
Cunner	<i>Tautoglabrus adspersus</i>	CUN	King mackerel	<i>Scomberomourus cavalla</i>	KGM
Cusk (=Tusk)	<i>Brosme brosme</i>	USK	Atlantic Spanish mackerel	<i>Scomberomourus maculatus</i>	SSM
Greenland cod	<i>Gadus ogac</i>	GRC	Sailfish	<i>Istiophorus platypterus</i>	SAI
Blue ling	<i>Molva dypterygia</i>	BLI	White marlin	<i>Tetrapturus albidus</i>	WHM
Ling	<i>Molva molva</i>	LIN	Blue marlin	<i>Makaira nigricans</i>	BUM
Lumpfish (=Lumpsucker)	<i>Cyclopterus lumpus</i>	LUM	Swordfish	<i>Xiphias gladius</i>	SWO
Northern kingfish	<i>Menticirrhus saxatilis</i>	KGF	Albacore tuna	<i>Thunnus alalunga</i>	ALB
Northern puffer	<i>Sphoeroides maculatus</i>	PUF	Atlantic bonito	<i>Sarda sarda</i>	BON
Eelpouts (NS)	<i>Lycodes sp.</i>	ELZ	Little tunny	<i>Euthynnus alletteratus</i>	LTA
Ocean pout	<i>Macrozoarces americanus</i>	OPT	Bigeye tunny	<i>Thunnus obesus</i>	BET

Common English Name	Scientific Name	3-Alpha Code	Common English Name	Scientific Name	3-Alpha Code
Pelagics (continued)			Invertebrates (continued)		
Northern bluefin tuna	<i>Thunnus thynnus</i>	BFT	Marine worms (NS)	<i>Polycheata</i>	WOR
Skipjack tuna	<i>Katsuwonus pelamis</i>	SKJ	Horseshoe crab	<i>Limulus polyphemus</i>	HSC
Yellowfin tuna	<i>Thunnus albacares</i>	YFT	Marine invertebrates (NS)	Invertebrata	INV
Tunas (NS)	Scombridae	TUN	Other Fish		
Pelagic fish (NS)		PEL	Alewife	<i>Alosa pseudoharengus</i>	ALE
Invertebrates			Amberjacks	<i>Seriola sp.</i>	AMX
Long-finned squid (<i>Loligo</i>)	<i>Loligo pealei</i>	SQL	American conger	<i>Conger oceanicus</i>	COA
Short-finned squid (<i>Illex</i>)	<i>Illex illecebrosus</i>	SQI	American eel	<i>Anguilla rostrata</i>	ELA
Squids (NS)	Loliginidae, Ommastrephidae	SQU	Atlantic hagfish	<i>Myxine glutinosa</i>	MYG
Atlantic razor clam	<i>Ensis directus</i>	CLR	American shad	<i>Alosa sapidissima</i>	SHA
Hard clam	<i>Mercenaria mercenaria</i>	CLH	Argentines (NS)	<i>Argentina sp.</i>	ARG
Ocean quahog	<i>Arctica islandica</i>	CLQ	Atlantic croaker	<i>Micropogonias undulatus</i>	CKA
Soft clam	<i>Mya arenaria</i>	CLS	Atlantic needlefish	<i>Strongylura marina</i>	NFA
Surf clam	<i>Spisula solidissima</i>	CLB	Atlantic salmon	<i>Salmo salar</i>	SAL
Stimpson's surf clam	<i>Spisula polynyma</i>	CLT	Atlantic silverside	<i>Menidia menidia</i>	SSA
Clams (NS)	Prionodesmacea, Teleodesmacea	CLX	Atlantic thread herring	<i>Opisthonema oglinum</i>	THA
Bay scallop	<i>Argopecten irradians</i>	SCB	Barid's slickhead	<i>Alepocephalus bairdii</i>	ALC
Calico scallop	<i>Argopecten gibbus</i>	SCC	Black drum	<i>Pogonias cromis</i>	BDM
Iceland scallop	<i>Chlamys islandica</i>	ISC	Black seabass	<i>Centropristis striata</i>	BSB
Sea scallop	<i>Placopecten magellanicus</i>	SCA	Blueback herring	<i>Alosa aestivalis</i>	BBH
Scallops (NS)	Pectinidae	SCX	Capelin	<i>Mallotus villosus</i>	CAP
American cupped oyster	<i>Crassostrea virginica</i>	OYA	Chars (NS)	<i>Salvelinus sp.</i>	CHR
Blue mussel	<i>Mytilus edulis</i>	MUS	Cobia	<i>Rachycentron canadum</i>	CBA
Whelks (NS)	<i>Busycon sp.</i>	WHX	Common (Florida) pompano	<i>Trachinotus carolinus</i>	POM
Periwinkles (NS)	<i>Littorina sp.</i>	PER	Gizzard shad	<i>Dorosoma cepedianum</i>	SHG
Marine molluscs (NS)	Mollusca	MOL	Grunts (NS)	<i>Pomadasyidae</i>	GRX
Atlantic rock crab	<i>Cancer irroratus</i>	CRK	Hickory shad	<i>Alosa mediocris</i>	SHH
Blue crab	<i>Callinectes sapidus</i>	CRB	Lanternfish	<i>Notoscopelus sp.</i>	LAX
Green crab	<i>Carcinus maenas</i>	CRG	Mulletts (NS)	<i>Mugilidae</i>	MUL
Jonah crab	<i>Cancer borealis</i>	CRJ	North atlantic harvestfish	<i>Peprilus alepidotus (=paru)</i>	HVF
Queen crab	<i>Chionoecetes opilio</i>	CRQ	Pigfish	<i>Orthopristis chrysoptera</i>	PIG
Red crab	<i>Geryon quinquedens</i>	CRR	Rainbow smelt	<i>Osmerus mordax</i>	SMR
Stone king crab	<i>Lithodes maia</i>	KCT	Red drum	<i>Sciaenops ocellatus</i>	RDM
Marine crabs (NS)	Reptantia	CRA	Red porgy	<i>Pagrus pagrus</i>	RPG
American lobster	<i>Homarus americanus</i>	LBA	Rough scad	<i>Trachurus lathami</i>	RSC
Northern prawn	<i>Pandalus borealis</i>	PRA	Sand perch	<i>Diplectrum formosum</i>	PES
Aesop shrimp	<i>Pandalus montagui</i>	AES	Sheepshead	<i>Archosargus probatocephalus</i>	SPH
Peneus shrimps (NS)	<i>Peneus sp.</i>	PEN	Spot croaker	<i>Leiostomus xanthurus</i>	SPT
Pink (=Pandalid) shrimps	<i>Pandalus sp.</i>	PAN	Spotted weakfish	<i>Cynoscion nebulosus</i>	SWF
Marine crustaceans (NS)	Crustacea	CRU	Squeteague (Gray Weakfish)	<i>Cynoscion regalis</i>	STG
Sea-urchin	<i>Strongylocentrotus sp.</i>	URC	Striped bass	<i>Morone saxatilis</i>	STB

Common English Name	Scientific Name	3-Alpha Code
Other fish (continued)		
Sturgeons (NS)	<i>Acipenseridae</i>	STU
Tarpon	<i>Tarpon (=megalops) atlanticus</i>	TAR
Trouts (NS)	<i>Salmo sp.</i>	TRO
White perch	<i>Morone americana</i>	PEW
Alfonsinos (NS)	<i>Beryx sp.</i>	ALF
Spiny (=picked) dogfish	<i>Squalus acantias</i>	DGS
Dogfishes (NS)	<i>Squalidae</i>	DGX
Sand Tiger shark	<i>Odontaspis taurus</i>	CCT
Porbeagle	<i>Lamna nasus</i>	POR
Shortfin mako shark	<i>Isurus oxyrinchus</i>	SMA
Dusky shark	<i>Carcharhinus obscurus</i>	DUS
Great Blue shark	<i>Prionace glauca</i>	BSH
Large sharks (NS)	<i>Squaliformes</i>	SHX
Atlantic Sharpnose shark	<i>Rhizoprionodon terraenova</i>	RHT
Black Dogfish	<i>Centroscyllium fabricii</i>	CFB
Boreal (Greenland) shark	<i>Somnousus microcephalus</i>	GSK
Basking shark	<i>Cetorhinus maximus</i>	BSK
Skates (NS)	<i>Raja sp.</i>	SKA
Little skate	<i>Leucoraja erinacea</i>	RJD
Arctic skate	<i>Amblyraja hyperborea</i>	RJG
Barndoor skate	<i>Dipturus laevis</i>	RJL
Winter skate	<i>Leucoraja ocellata</i>	RJT
Thorny skate (Starry Ray)	<i>Amblyraja radiata</i>	RJR
Smooth skate	<i>Malcoraja senta</i>	RJS
Spinytail skate (Spinetail Ray)	<i>Bathyraja spinicauda</i>	RJO
Finfishes (NS)		FIN

*In accordance with a recommendation adopted by STACRES at the 1970 Annual Meeting (ICNAF Redbook 1970, Part I, Page 67), hakes of the Genus *Urophycis* are designated as follows for statistical reporting: (a) hake reported from Subareas 1, 2, and 3, and Divisions 4R, S, T and V be designated as white hake, *Urophycis tenuis*; (b) hake taken by line gears or any hake greater than 55 cm standard length, regardless of how caught, from Divisions 4W and X, Subarea 5 and Statistical Area 6 be designated as white hake, *Urophycis tenuis*; (c) Except as noted in (b), other hake of the Genus *Urophycis* taken in Divisions 4W and X, Subarea 5 and Statistical Area 6 be designated as red hake, *Urophycis chuss*

Annex III
Minimum Fish Size*

Species	Gilled and gutted fish whether or not skinned; fresh or chilled, frozen, or salted.			
	Whole	Head Off	Head and Tail Off	Head Off and Split
Atlantic Cod	41 cm	27 cm	22 cm	27/25 cm**
Greenland halibut	30 cm	N/A	N/A	N/A
American plaice	25 cm	19 cm	15 cm	N/A
Yellowtail flounder	25 cm	19 cm	15 cm	N/A

* Fish size refers to fork length for Atlantic cod; whole length for other species.

**Lower size for green salted fish.

Annex IV Formats for Register of Vessels

A. Fishing vessels:

Data Element	Code	Mandatory /Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO Secretariat
From	FR	M	Message detail; ISO-3 code of the transmitting Contracting Party
Record Number	RN	M	Message detail; message serial number in current year
Record Date	RD	M	Message detail; date of transmission
Record Time	RT	M	Message detail; time of transmission
Type of Message	TM	M	Message detail; message type, "NOT" as Notification of authorized vessels
Vessel Name	NA	M	Vessel registration detail; name of the vessel
Radio Call Sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Flag State	FS	M	Vessel registration detail; State where the vessel is registered
Internal Reference Number	IR	O ¹	Vessel registration detail; Unique Contracting Party vessel number as ISO-3 flag state code followed by number
External Registration Number	XR	M	Vessel registration detail; the side number of the vessel
Port Name	PO	O	Vessel registration detail; port of registration or home port
Vessel Owner	VO	M ²	Vessel registration detail; responsible for using the vessel
Vessel Charterer	VC	M ²	Vessel registration detail; responsible for using the vessel
Vessel Type	TP	O	Vessel characteristic, FAO vessel code (Annex V.A)
Vessel Gear	GE	O	Vessel characteristic, FAO statistical classification of fishing gear (Annex VI)
Vessel capacity measurement method	VT	M	Vessel characteristic; vessel capacity in pairs as needed "OC" "OSLO" convention 1947, "LC" "London" convention ICTM-69
tonnage		M	total capacity in tonnage

Data Element	Code	Mandatory /Optional	Remarks
Vessel length measurement method length	VL	M M	Vessel characteristic; length in meters in pairs as needed "OA" overall; "PP" between perpendiculars length in meters
Vessel Power measurement method Power	VP	M M	Vessel characteristic; engine power in pairs as needed "KW" total installed engine power in vessel as kilowatts, "HP" total installed engine power as horsepower total installed engine power
Limited Authorization	LU	O	License detail; authorization subject to specific restrictions on operation in the R.A., "Yes" or "No"
End of record	ER	M	System detail; indicates end of the record

¹ Mandatory when used as a single identification in other messages.

² Whichever one is appropriate.

B. Research Vessels

Information on the vessel

- (a) name of vessel owner and address;
- (b) type and name of vessel;
- (c) length, beam and draft of vessel;
- (d) port of registration, registration number, and radio call sign;
- (e) a note whether the vessel is a permanent research vessel or the period for which the vessel will be employed as a research vessel; and
- (f) for vessels which are temporarily employed in research only, purpose and area of research and plan of research program.

Annex V Fishing Vessel Codes

A. Main Vessel Types

FAO Code	Type of vessel	FAO Code	Type of vessel
BO	Protection vessel	NOX	Lift netter NEI
CO	Fish training vessel	PO	Vessel using pumps
DB	Dredger non continuous	SN	Seine netter
DM	Dredger continuous	SO	Seiner
DO	Beamer	SOX	Seiner NEI
DOX	Dredger NEI	SP	Purse seiner
FO	Fish carrier	SPE	Purse seiner european
FX	Fishing vessel NEI	SPT	Tuna purse seiner
GO	Gill netter	TO	Trawler
HOX	Mother ship NEI	TOX	Trawlers NEI
HSF	Factory mother ship	TS	Side trawler
KO	Hospital ship	TSF	Side trawler freezer
LH	Hand liner	TSW	Side trawler wetfish
LL	Long liner	TT	Stern trawler
LO	Liner	TTF	Stern trawler freezer
LP	Pole and line vessel	TTP	Stern trawler factory
LT	Troller	TU	Outrigger trawlers
MO	Multipurpose vessels	WO	Trap setter
MSN	Seiner hand liner	WOP	Pot vessels
MTG	Trawler drifter	WOX	Trap setters NEI
MTS	Trawler purse seiner	ZO	Fish research vessel
NB	Lift netter tender	DRN	Drifnetter
NO	Lift netter		

NEI = Not Elsewhere Identified

B. Main vessel activities

Alfa Code	Category
ANC	Anchoring
DRI	Drifting
FIS	Fishing
HAU	Hauling
PRO	Processing
STE	Steaming
TRX	Trans-shipping on or off loading
OTH	Others - to be Specified

Annex VI Gear Codes

<i>Gear Categories</i>	<i>Standard Abbreviation Code</i>	<i>Gear Categories</i>	<i>Standard Abbreviation Code</i>
SURROUNDING NETS		GILLNETS AND ENTANGLING	
With purse lines (purse seines)	PS	NETS	
One boat operated purse seines	PS1	Set gillnets (anchored)	GNS
Two boat operated purse seines	PS2	Drift nets	GND
Without purse lines (lampara)	LA	Encircling gillnets	GNC
SEINE NETS		Fixed gillnets (on stakes)	GNF
Boat or vessel seines	SB	Trammel nets	GTR
Danish seines	SV	Combined gillnets-Trammel nets	GTN
Scottish seines	SDN	Gillnets and entangling nets (not specified)	GEN
Pair seines	SSC	Gillnets (not specified)	GN
Seine nets (not specified)	SPR		
	SX	TRAPS	
TRAWLS		Pots	FPO
Bottom trawls		Stationary uncovered pound-nets	FPN
Beam trawls	TBB	Fyke nets	FYK
Otter trawls ¹	OTB	Stow nets	FSN
Pair trawls	PTB	Barriers, fences, weirs, etc.	FWR
Nephrops trawls	TBN	Aerial traps	FAR
Shrimp trawls	TBS	Traps (not specified)	FIX
Bottom trawls (not specified)	TB	HOOKS AND LINES	
Midwater trawls		Hand-lines and pole-lines (hand operated) ²	LHP
Otter trawls	OTM	Hand-lines and pole-lines (mechanized) ²	LHM
Pair trawls	PTM	Set lines (longlines set)	LLS
Shrimp trawls	TMS	Drifting longlines	LLD
Midwater trawls (not specified)	TM	Longlines (not specified)	LL
Otter twin trawls	OTT	Trolling lines	LTL
Otter trawls (not specified)	OT	Hooks and lines (not specified) ³	LX
Pair trawls (not specified)	PT	GRAPPLING AND WOUNDING	
Other trawls (not specified)	TX	Harpoons	HAR
DREDGES		HARVESTING MACHINES	
Boat dredges	DRB	Pumps	HMP
Hand dredges	DRH	Mechanized dredges	HMD
		Harvesting machines (not specified)	HMX
LIFT NETS		MISCELLANEOUS GEAR ⁴	
Portable lift nets	LNP		MIS
Boat operated lift nets	LNB	RECREATIONAL FISHING GEAR	
Shore operated stationary lift nets	LNS		RG
Lift nets (not specified)	LN	GEAR NOT KNOWN OR NOT SPECIFIED	
			NK
FALLING GEAR			
Cast nets	FCN		
Falling Gear (not specified)	FG		

(continued on next page)

¹ Fisheries agencies may indicate side and stern bottom and side and stern midwater trawls, as OTB-1 and OTB-2, and OTM-1 and OTM-2, respectively.

² Including jigging lines.

³ Code LDV for dory operated line gears will be maintained for historical data purposes.

⁴ This item includes: hand and landing nets, drive-in-nets, gathering by hand with simple hand implements with or without diving equipment, poisons and explosives, trained animals, electrical fishing.

Annex VII

Vessel documents

Elements to be included in documents onboard vessels over 10 metres in length:

- its name, if any
- the letter(s) of the port or district in which it is registered, and the number(s) under which it is registered
- its international radio call sign, if any
- the names and addresses of the owner(s) and, where applicable, the charterers
- its length and engine power

Annex VIII

Recording of Catch (Logbook Entries)

FISHING LOGBOOK ENTRIES

<u>Item of Information</u>	<u>Standard Code</u>
Vessel name	01
Vessel nationality	02
Vessel registration number	03
Registration port	04
Types of gear used (separate record for different gear types)	10
Type of gear	
Date - day	20
- month	21
- year	22
Position - latitude	31
- longitude	32
- statistical area	33
* ¹ No. of hauls during the 24-hour period	40
* ² No. of hours gear fished during the 24-hour period	41
Species names (Annex II)	
Daily catch of each species (metric tons round fresh weight)	50
Daily catch of each species for human consumption in the	
form of fish	61
Daily catch of each species for reduction	62
Daily discard of each species	63
Place(s) of transshipment	70
Date(s) of transshipment	71
Master's signature	80

Instructions:

*¹ When two or more types of gear are used in the same 24-hour period, records should be separate for the different types.

*² Please see Annex II for Species codes; Annex VI for applicable gear and attachment codes.

Annex IX VMS Data Format

Data Element	Code	Mandatory / Optional	Remarks
Start record	SR	M	System detail; indicates start of record
From	FR	M	Address of the transmitting party (Contracting Party)
Address	AD	M	Message detail; destination; "XNW" for NAFO Secretariat
Sequence Number	SQ	O	Message detail; message serial number in current year
Type of Message	TM	M	Message detail; message type, "POS" as Position report/message to be communicated by VMS or other means by vessels with a defective satellite tracking device
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	M	Vessel registration detail; name of the vessel
External Registration Number	XR	M	Vessel registration detail; the side number of the vessel
Latitude	LT	M	Activity detail; position at time of transmission
Longitude	LG	M	Activity detail; position at time of transmission
Date	DA	M	Message detail; date of transmission
Time	TI	M	Message detail; time of transmission
Record Date	RD	M	Year, month and date
Record Time	RT	M	Hours and minutes in UTC
Record Number	RN	M	Serial number of the record in the relevant year
End of record	ER	M	System detail; indicates end of the record

Each data transmission is structured as follows:

- double slash ("/") and the characters "SR" indicate the start of a message;
- a double slash ("/") and field code indicate the start of a data element;
- a single slash ("/") separates the field code and the data;
- pairs of data are separated by space; the characters "ER" and a double slash ("/") indicate the end of a record."

Annex X

Format for the communication of catches and reports by fishing vessels

1) "Catch on ENTRY" report

Data Element	Field Code	Mandatory/ Optional	Remarks
Start record	SR	M	System detail; indicates start of record
From	FR	M	Name of transmitting Party
Address	AD	M	Message detail; destination, "XNW" for NAFO
Sequence Number	SQ	M	Message detail; serial number in current year
Type of Message	TM	M	Message detail; message type, "COE" as Catch on Entry report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Master Name	MA	M	Name of the master of vessel
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel.
Latitude	LA	M	Activity detail; position at time of transmission
Longitude	LO	M	Activity detail; position at time of transmission
Relevant Area	RA	M	NAFO Division into which the vessel is about to enter
Date	DA	M	Message detail; date of transmission
Time	TI	M	Message detail; time of transmission
On Board	OB	M	Total round weight of fish by species (3-alpha code) on board upon entry into the Regulatory Area in kilograms rounded to the nearest 100 kilograms. Allow several pairs of fields, consisting of species +9 weight, with each field separated by a space, e.g. //OB/species weight species weight species weight//
Directed Species	DS	M	Directed species. Allow several species to be entered with the value separated by spaces, e.g. //DS/species species species//
End of record	ER	M	System detail; indicates end of the record

2) "ENTRY" report

Data Element	Code	Mandatory / Optional	Remarks
Start record	SR	M	System detail; indicates start of record
From	FR	M	Address of the transmitting party (Contracting Party)
Address	AD	M	Message detail; destination; "XNW" for NAFO Secretariat
Sequence Number	SQ	O	Message detail; message serial number in current year
Type of Message	TM	M	Message detail; message type, "ENT" as Entry report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	M	Vessel registration detail; name of the vessel
External Registration Number	XR	M	Vessel registration detail; the side number of the vessel
Latitude	LT	M	Activity detail; position at time of transmission
Longitude	LG	M	Activity detail; position at time of transmission
Date	DA	M	Message detail; date of transmission
Time	TI	M	Message detail; time of transmission
Record Date	RD	M	Year, month and date
Record Time	RT	M	Hours and minutes in UTC
Record Number	RN	M	Serial number of the record in the relevant year
End of record	ER	M	System detail; indicates end of the record

3) “TRANSHIPMENT” report

Data Element	Field Code	Mandatory/Optional	Remarks
Start record	SR	M	System detail; indicates start of record
From	FR	M	Name of transmitting Party
Address	AD	M	Message detail; destination, “XNW” for NAFO
Sequence Number	SQ	M	Message detail; message serial number in current year
Type of Message	TM	M	Message detail; message type, “TRA” as Transhipment report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Master Name	MA	M	Name of master of vessel
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Latitude	LA	M	Activity detail; position at time of transhipment
Longitude	LO	M	Activity detail; position at time of transhipment
Quantity on-loaded or off-loaded species live weight	KG	M M	Quantity by species on-loaded or off-loaded in the R.A., in pairs as needed. FAO species code live weight in kilograms, rounded to the nearest 100 kilograms
Transhipped To	TT	M ¹	Vessel registration detail; International radio call sign of the receiving vessel
Transhipped From	TF	M ¹	Vessel registration detail; International radio call sign of the donor vessel
Date	DA	M	Message detail; date of transmission
Time	TI	M	Message detail; time of transmission
End of record	ER	M	System detail; indicates end of the record

¹Whichever one is appropriate

4) "Catch on EXIT" report

Data Element	Field Code	Mandatory/Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO
From	FR	M	Name of transmitting party
Sequence Number	SQ	M	Message detail; message serial number in current year
Type of Message	TM	M	Message detail; "COX" as Catch on Exit report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Master Name	MA	M	Name of master of vessel
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Latitude	LA	M	Activity detail; position at time of transmission
Longitude	LO	M	Activity detail; position at time of transmission
Relevant Area	RA	M	NAFO area from which the vessel is about to exit
Catch	CA		Activity detail; Cumulative catch retained on board by species, either since commencement of fishing in the R.A. or last "Catch" report, in pairs as needed.
species		M	FAO species code
live weight		M	live weight in kilograms, rounded to the nearest 100 kilograms
Days Fished	DF	M	Activity detail; number of fishing days in the Regulatory Area either since commencement of fishing or last "Catch" report
Date	DA	M	Message detail; date of transmission
Time	TI	M	Message detail; time of transmission
End of record	ER	M	System detail; indicates end of the record

5) "EXIT" report

Data Element	Code	Mandatory / Optional	Remarks
Start record	SR	M	System detail; indicates start of record
From	FR	M	Address of the transmitting party (Contracting Party)
Address	AD	M	Message detail; destination; "XNW" for NAFO Secretariat
Sequence Number	SQ	O	Message detail; message serial number in current year
Type of Message	TM	M	Message detail; message type, "EXI" as Exit report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	M	Vessel registration detail; name of the vessel
External Registration Number	XR	M	Vessel registration detail; the side number of the vessel
Latitude	LT	M	Activity detail; position at time of transmission
Longitude	LG	M	Activity detail; position at time of transmission
Date	DA	M	Message detail; date of transmission
Time	TI	M	Message detail; time of transmission
Record Date	RD	M	Year, month and date
Record Time	RT	M	Hours and minutes in UTC
Record Number	RN	M	Serial number of the record in the relevant year
End of record	ER	M	System detail; indicates end of the record

Annex XI Report of Inspection

REPORT OF INSPECTION

THE NORTHWEST ATLANTIC FISHERIES ORGANIZATION

(Inspector: Please use CAPITAL BLOCK LETTERS)

AUTHORIZED INSPECTOR(S)

1. NAME(s)..... CONTRACTING PARTY.....
2. Name and Identifying letters and/or Number of Vessel Carrying Inspector(s)
.....

INFORMATION ON VESSEL INSPECTED

3. Contracting Party and Port of Registry.....
4. Vessel's Name and Registration Number.....
5. Master's Name.....
6. Owner's Name and Address.....
7. Position as determined by inspecting vessel's master atUTC; Lat.....Long.....
8. Position as determined by fishing vessel's master atUTC; Lat..... Long.....

DATE AND TIMES THE INSPECTION COMMENCED AND FINISHED

9. Date Time arrived on board UTC-Time of Departure UTC

MESH MEASUREMENT - IN MILLIMETERS

10. Type of Net _____

Codend (inclusive of lengthener(s), if any) - Samples of 20 meshes 100 mm+ _____

	Width (Mesh Size)														Average Width	Legal Size		
1 st Net																		
2 nd Net																		

Chafer - Samples of ____ meshes

1 st Net																		
2 nd Net																		

Rest of Net - Samples of 20 meshes

1 st Net																			
2 nd Net																			

11. Have the records of catches been retained aboard for the duration of the quota period? YES/NO

Result of Inspection of Fish on board

12. Result of Inspection of Fish Observed in last tow (if appropriate)

TOTAL TONS	ALL SPECIES TAKEN	PERCENTAGE OF EACH

13. Result of inspection of catches on board

Fish species with 3-Alpha Code	Inspectors Estimate (tonnes)

Inspectors comments on how estimates were calculated:

.....

.....

.....

.....

14. Summary of catches from logbooks for current fishing trip/quota period:

DATE OF ENTRY INTO REGULATORY AREA	DIVISION	FISH SPECIES WITH 3-ALPHA CODE	CATCH (METRIC TONS)	HOW PROCESSED	DISCARDS

15.

Nature of infringement: Signature of inspector: Signature of master:
--

COMMENTS AND OBSERVATIONS

16. Documents inspected following an infringement.....

17. Comments: (In the case of a difference between the inspector's estimates of the catches on board and the related summaries of catches from the logbooks, note this difference with the percentage)

18. Subjects of photographs taken relating to an infringement

19. Other comments, statements and/or observations by Inspector(s)

20. Statements of Second Inspector or Witness

21. Name and Signature of Second Inspector or Witness.....

22. Signature of Inspector in charge.....

23. Statement of Master's Witness(es)

24. Name and Signature of Master's Witness(es)

25. Acknowledgement and receipt of report:

I, the undersigned, Master of the vessel....., hereby confirm that a copy of this report and second photographs taken have been delivered to me on this date. My signature does not constitute acceptance of any part of the contents of the report.

Date..... Signature.....

26. Comments and signature by the Master of vessel

COPY TO MASTER, ORIGINAL TO BE RETAINED BY INSPECTOR FOR REQUIRED DISTRIBUTION

1. The forms for the Report of Inspection shall be collated in a booklet with each page having an original and two self-carbon copies (preferably coloured and preferably 1 yellow and 1 green).
2. Page packets are to be perforated at the top and bottom of the page for easy removal.
3. Items 1 through 8 and item 17 of the Report are to be highlighted with red ink.
4. Booklets should be bound preferably with 20 complete sets of the 3-page report.
5. The size of every page, after removal from the packet, should be 355.5 mm (14") in length by 216 mm (8 1/2") in width.

Annex XII Surveillance Report Form

THE NORTHWEST ATLANTIC FISHERIES ORGANIZATION SURVEILLANCE REPORT PART I

AUTHORIZED INSPECTORS

2. Name(s) Document Identity No.(s).....

 Contracting Party
2. Identification/Call Sign of Surveillance Craft
- Patrol Originating in Reg. Area at (Posn)on (Date) (time) UTC
 Patrol Leaving Reg. Area at (Posn)on (Date) (time) UTC

DETAILS OF VESSEL OBSERVED

3. Contracting Party
4. Vessels Name and Letters and Numbers of Registration
5. Other Identifying Features (Type of vessel, colour of hull, superstructure, etc.)

6. Date/Time UTC When First Identified Course & Speed
- Position at Time at First I.D. NAFO Sub Div.....
 Lat.
 Long.
- Equipment used in Determining Position

7. WEATHER CONDITIONS

Wind Dir Sea State

Wind Speed Visibility

8. DETAILS OF PHOTOGRAPHS TAKEN

	Date/Time	Posn.	Altitude in case of air surveillance
a.
b.
c.
d.

PART II
(to be completed by the inspector not less than 72 hours
following the observation recorded in Part I)

(NOT APPLICABLE TO NON-CONTRACTING PARTIES)

I hereby certify that to date, in respect of the fishing vesselinformation received by the
.....authorities from the competent authorities of the Contracting Party
..... pursuant to Articles 21 and 22 of the Conservation and Enforcement Measures,
does not correspond with the observation recorded in Part I of this report.

Authorised Inspector:

Signature:

Annex XIII Port Inspection Report

A. "PORT INSPECTION REPORT" FORM

Page n° Of

1. INSPECTION REFERENCE

Inspection authority

Date of the report

Port of inspection

Vessel name

2. TRIP INFORMATION¹

Date trip started

Trip number²

Activity in the NAFO RA :

Date Entry in the RA

Date Exit from the RA

Other areas visited

Date trip ended

3. VESSEL IDENTIFICATION³

External Identification

International Radio Call Sign

Flag State

NAFO Contracting Party

Home port

Vessel owner

Vessel operator

Master name

4. RESULT OF INSPECTION OF DISCHARGE⁴

4.1. General information

Starting of discharge : Date Time

Ending of discharge : Date Time

Has vessel discharged all catches on board? YES *If YES, fill in table 4.2*
 NO *If NO, fill table 4.3*

Comments

4.2 Quantity discharged

Species (FAO Code)	Presentation	Live Weight (Log Book, kg)	Conversion factor	Landing Processed Wt (kg)	Equivalent live weight (kg)	Diff. (kg)	Diff. (%)
Comments							

4.3 Quantity staying on board the vessel

To be filled where part of the catches stay on board after completion of discharge

Species	Presentation	Conversion factor	Process weight (kg)	Equivalent live weight (kg)
Comments				

5. GEAR INSPECTION IN PORT⁵

5.1 General data

Number of gear inspected

Date gear inspection

Has the vessel been cited ?

If Yes, complete the full "verification of inspection in port" form.

If No, complete the form with the exception of the NAFO Seal Details.

<input type="checkbox"/>	Yes
<input type="checkbox"/>	No

5.2 Otter Trawl details

NAFO Seal number

Is seal undamaged ?

Yes

No

Gear Type:

Attachments:

Grate Bar Spacing (mm)

Mesh Type:

Average mesh sizes (mm)	
TRAWL PART	
Wings:	
Body:	
Lengthening. Piece:	
Codend:	

B. INFORMATION TO BE INSERTED IN THE REPORT

1. INSPECTION REFERENCES

Data Element	M/O	Category ; Definition
Inspection authority	M	Inspection detail : Name of the inspection authority or of the alternate body nominated by the authority
Date	M	Inspection detail : Date the report is compiled
Port of inspection	M	Vessel activity detail : Place where the vessel is inspected : port followed by ISO -3 code of the country as "St Johns / CAN"
Vessel Name	M	Vessel registration detail; name of the vessel

2. TRIP INFORMATION

Data Element	M/O	Category ; Definition
Date trip started	M	Vessel activity details : date started the current fishing trip
Vessel trip number	O	Vessel activity details : Number of the fishing trip in current year
Date Entry in the RA	M	Vessel activity details : Date the vessel entered the NRA for the current fishing trip
Date Exit from the RA	M	Vessel activity details : Date the vessel exited from the NRA for the current fishing trip
Other areas visited	O	Vessel activity detail : other area where vessel have been fishing during the current trip
Date trip Ended	M	Vessel activity details : date ended the current fishing trip

3. VESSEL IDENTIFICATION

Data Element	M/O	Category ; Definition
External Identification Number	M	Vessel registration details : Side Number of the vessel
International Radio Call Sign	M	Vessel registration details : International Radio Call Sign of the vessel
Flag State	M	Vessel registration detail; State where the vessel is registered, 3-ISO country code
NAFO Contracting Party	O (1)	Vessel registration detail :NAFO contracting party of the vessel, as ISO code of the country, EUR for European Community, NCP for Non Contracting Party
Home port	O	Vessel registration details : Port of registration of the vessel or homeport
Vessel owner	M	Vessel registration details : name and address of the vessel owner
Vessel operator	M (2)	Vessel registration details : responsible for using the vessel
Master name	O	Vessel activity details : name of the master

(1) if different from the flag state

(2) if different from the vessel owner

4. RESULT OF INSPECTION ON DISCHARGE

4.1 General information

Data Element	M/O	Category ; Definition
Start date of discharge	M	Discharge detail : date the vessel started discharge
End date of discharge	M	Discharge detail : date the vessel finished discharge
Has vessel landed all catches on board ?	M	Discharge detail : Has vessel landed all catches on board ?, answer Y if yes, N if not
Comments	O	Discharge detail : comments as necessary. If discharge as not been completed, please give an estimation on catch still on board

4.2 Quantity discharged

Data Element	M/O	Category ; Definition
Species	M	Discharge detail : FAO 3-alpha code (part V, schedule II, attachment II)
Presentation	M	Discharge detail : Product form
Live Weight	M	Quantities determined from the logbook.
Conversion factor	O	Product detail : Conversion factor as define by the master for the corresponding species, size and presentation, optional if already mention in table B
Process weight	M	Discharge detail : Quantities landed by species and presentation, in kilograms of product, rounded to the nearest 10 kg
Equivalent live weight	M	Discharge detail : Quantities landed in equivalent live weight, as “product weight x conversion factor”, in kilograms, rounded to the nearest 10 kg
Comments	O	Discharge Details : free text area

4.3 Quantities staying on board the vessel

Data Element	M/O	Category ; Definition
Species	M	Discharge detail : FAO 3-alpha code (part V, schedule II, attachment II)
Presentation	M	Discharge detail : Product form
Conversion factor	O	Product detail : Conversion factor as define by the master for the corresponding species, size and presentation, optional if already mention in table B
Process weight	M	Discharge detail : Quantities landed by species and presentation, in kilograms of product, rounded to the nearest 10 kg
Equivalent live weight	M	Discharge detail : Quantities landed in equivalent live weight, as “product weight x conversion factor”, in kilograms, rounded to the nearest 10 kg
Comments	O	Discharge Details : free text area

5. RESULT OF GEAR INSPECTION⁶

5.1 General information

Data Element	M/O	Category ; Definition
Date of inspection	M	Inspection detail : Date of current gear inspection
Inspected gear	M	Inspection detail : number of gear checked during port inspection

5.2 Otter trawl details

Data Element	M/O	Category ; Definition
NAFO seal number	M	Inspection detail (if required) : Number of the NAFO seal attached to the gear after inspection at sea
Is Seal Undamaged ?	M	Whether NAFO inspection seal is intact. – “yes” or “no”
Gear type	M	International Standard Statistical Classification of the Fishing Gear , OTB for otter trawl
Attachments		Otter trawl detail : attachment to footrope
Grade bar spacing	M	Otter trawl detail : grade bar spacing in millimetres
Mesh type	M	Otter trawl detail : respectively mesh type: SQ for square mesh , DI for diamant mesh
Mesh size average	M	Otter trawl detail : average mesh size in the trawl part, by pair
Trawl part	M	Trawl part measured
Mesh size	M	Mesh size in millimetres

¹ To be filled in by the inspection authority or any alternate body nominated by the authorities as soon as the vessel land to port, based on logbook records.

² Where applicable

³ To be filled in based on the license information

⁴ To be filled in after completion of discharge

⁵ Verification shall be done when non-compliance have been cited / observed during inspection at sea. To be filled in when port inspection also concerns inspection of gears on board. A detail form shall be filled in for every gear having been subject to port inspection.

⁶ Verification shall be done when non-compliance have been cited / observed during inspection at sea. To be filled in when port inspection also concerns inspection of gears on board. A detail form shall be filled in for every gear having been subject to port inspection.

Annex XIV

Mesh Measurements and Gauges

1. Description of mesh gauges

- a. A mesh gauge to be used for determining mesh sizes shall be 2 mm thick, flat, of durable material and non-deformable. It shall be designed either as a number of parallel-edged sides connected by tapering edges with a taper of 1:8 on each side or only tapering edges with the taper defined above. The mesh gauge shall have a hole at the narrowest extremity.
- b. The face of the mesh gauge shall be inscribed with the width in millimetres both on the parallel-sided section, if this design is used and on the tapering section. In the case of the latter, the width shall be inscribed for every interval of 1mm and the width shall be indicated at regular intervals.

2. Use of the mesh gauge

- a. The net shall be kept stretched so that the meshes are stretched in the direction of the long diagonal.
- b. The tapered end of the mesh gauge described in point 1 shall be inserted into the mesh opening in a direction perpendicular to the netting along the long axis of the net.
- c. The gauge shall be inserted into the mesh opening either manually or using a weight until the mesh gauge is stopped by the resistance of the mesh at the tapering edges.

3. Selection of meshes for measuring

- a. The meshes to be measured shall form a series of 20 consecutive meshes selected in the direction of the long axis of the net.
- b. Meshes positioned less than 50 cm from lacings, ropes and codlines shall not be measured. This distance shall be measured perpendicular to the lacings, the ropes or the codline with the net stretched in the direction of measuring. Any mesh that has been mended or torn or to which attachments to the net are fixed shall not be measured.
- c. By way of derogation from 3a), the meshes to be measured need not be consecutive if this is prevented by the application of 3b).
- d. Nets shall be measured only when wet and non-frozen.

4. Sizes of individual meshes

- a. The size of a mesh shall be equal to the width of the gauge inscribed at the point where the gauge is stopped when used in accordance with point 2.
- b. The sides of a mesh shall be accepted as being of the same length if, when measured, the two knots that keep the mesh together in the lateral direction appear to be off the centre of the mesh gauging device.

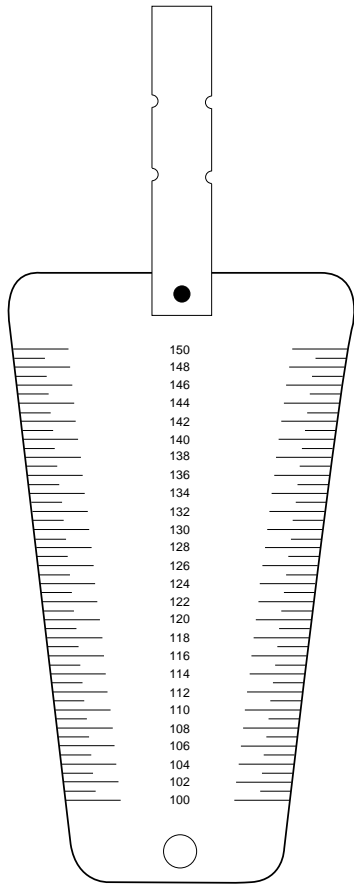
5. Determination of the mesh size of a net

- a. The mesh size of a net shall be expressed in mm as the average of the sizes of the total number of meshes selected and measured according to points 3 and 4. The average value shall be rounded up to the next full number of millimetres.
- b. The total number of meshes to be measured is specified in point 6.

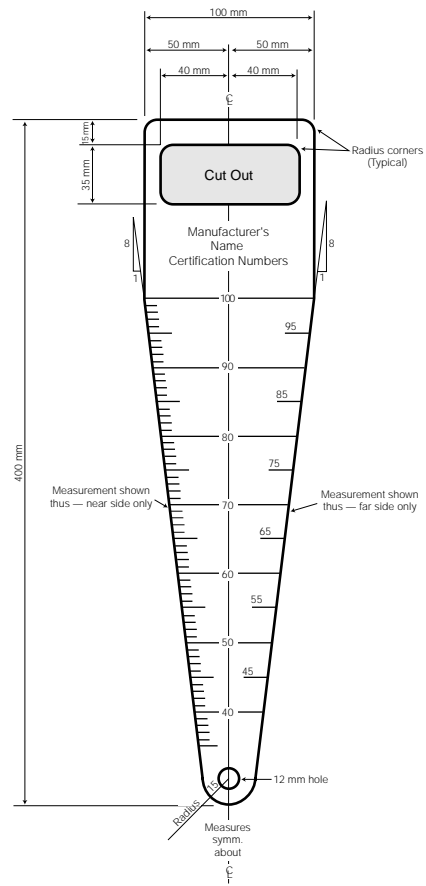
6. Mesh gauging procedure

- a. Only meshes which have 4 sides, equally long, of the same material, and 4 permanent joints or knots are permitted.
- b. Mesh size shall be calculated by averaging:
 - in respect of the codend of a net, including any lengthener(s), the measurements, in millimeters, of any 20 consecutive meshes running parallel to the long axis of the codend, beginning at the after end of the codend, and at least 10 meshes from the lacings; and
 - in respect of any part of a net, the measurements, in millimeters, of any 20 consecutive meshes that are at least 10 meshes from the lacings.

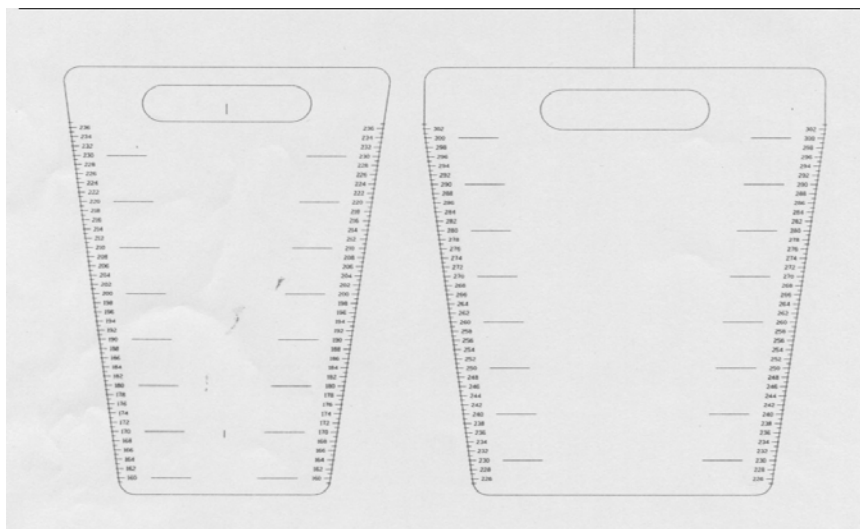
EXAMPLE OF LARGE SIZE GAUGE



EXAMPLE OF SMALL SIZE GAUGE



EXAMPLE OF SKATE GAUGES



160 – 236 mm

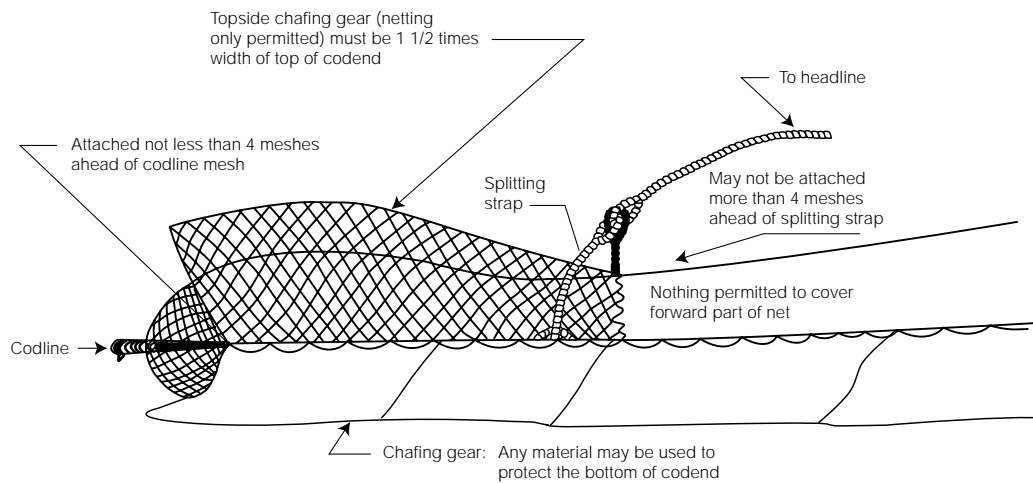
226 – 302 mm

Annex XV Authorised Topside Chafers

1. ICNAF-type topside chafer

The ICNAF-type topside chafer is a rectangular piece of netting to be attached to the upper side of the codend of the trawl net to reduce and prevent damage so long as such netting conforms to the following conditions:

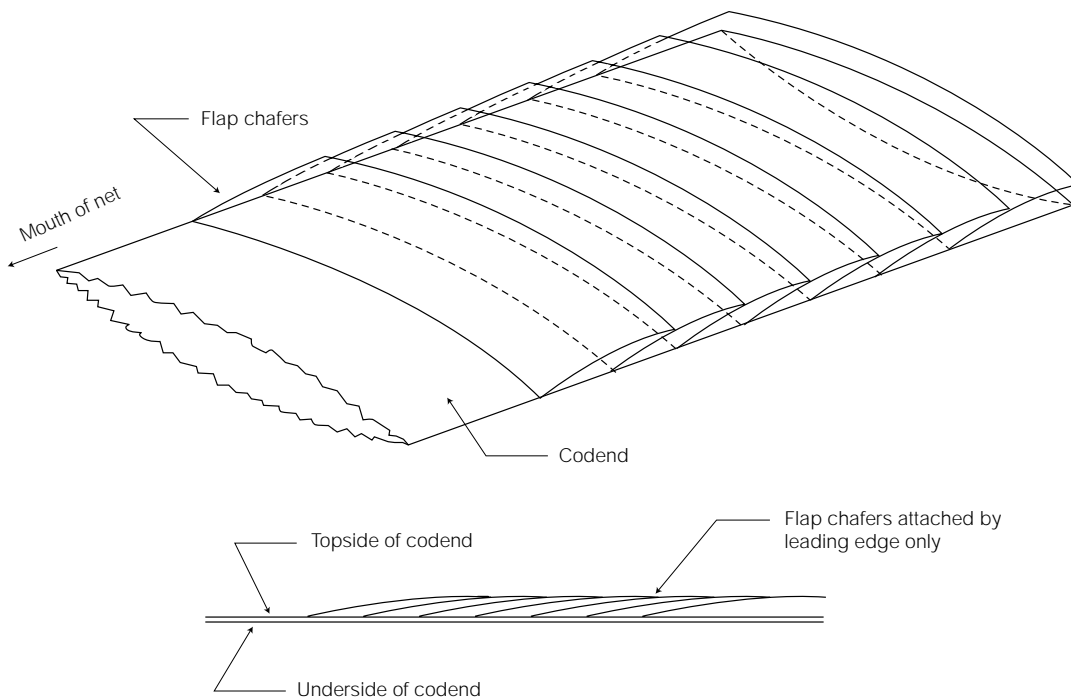
- (a) this netting shall have a mesh size not less than that specified for the codend in Article 10;
- (b) this netting may be fastened to the codend only along the forward and lateral edges of the netting and at no other place in it, and shall be fastened in such a manner that it extends forward of the splitting strap no more than four meshes and ends not less than four meshes in front of the cod line mesh; where a splitting strap is not used, the netting shall not extend to more than one-third of the codend measured from not less than four meshes in front of the cod line mesh;
- (c) the width of this netting shall be at least one and a half times the width of the area of the codend which is covered, such widths to be measured at right angles to the long axis of the codend.



2. Multiple flap-type topside chafer

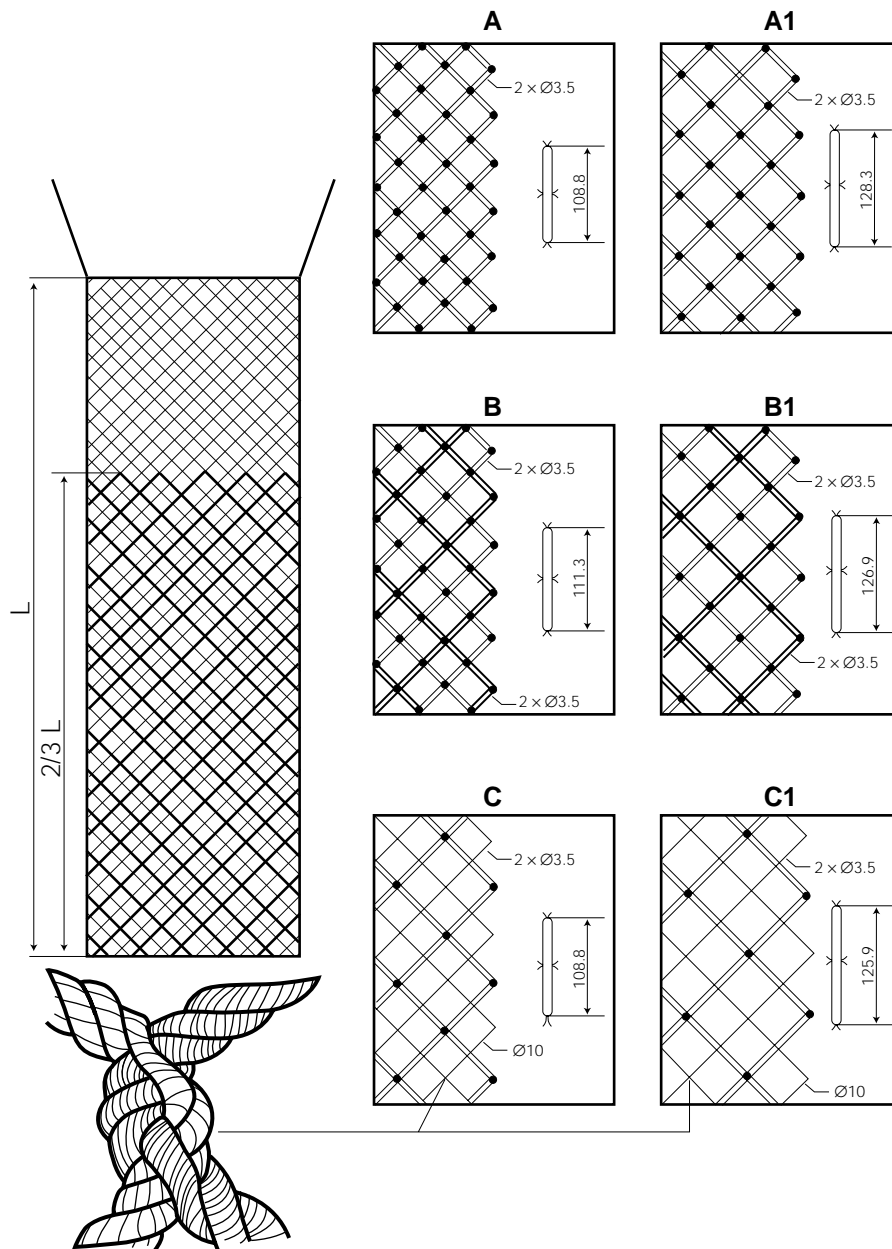
The multiple flap-type topside chafer is defined as pieces of netting having in all their parts meshes the size of which, whether the pieces of netting are wet or dry, is not less than that of the codend, provided that:

- (i) each piece of netting
 - (a) is fastened by its forward edge only across the codend at right angles to its long axis;
 - (b) is of a width of at least the width of the codend (such width being measured at right angles to the long axis of the codend at the point of attachment); and
 - (c) is not more than ten meshes long; and
- (ii) the aggregate length of all the pieces of netting so attached does not exceed two-thirds of the length of the codend.



3. Large-mesh (modified Polish-type) topside chafer

The large-mesh topside chafer consists of a rectangular piece of netting made of the same twine material as the codend, or of a single, thick, knotless twine material, attached to the rear portion of the upper side of the codend and extending over all or any part of the upper side of the codend and having in all its parts a mesh size twice that of the codend when measured wet and fastened to the codend along the forward, lateral and rear edges only of the netting in such a way that each mesh of the netting coincides with four meshes of the codend.



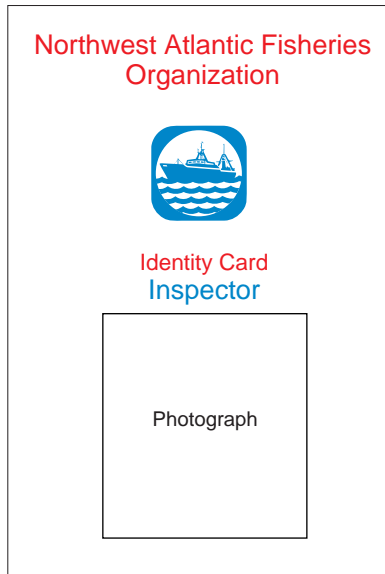
ANNEX XVI

Document of Identity

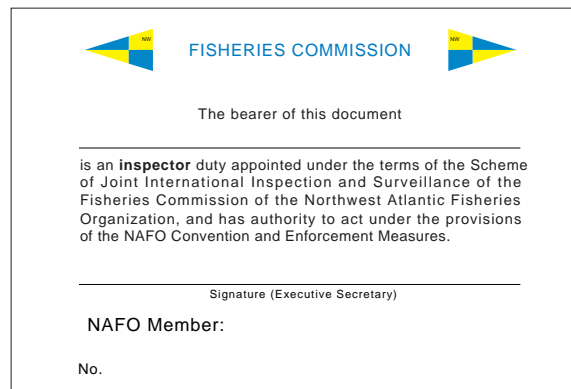
INSPECTOR'S/TRAINEE'S DOCUMENT OF IDENTITY

(not smaller than 8.5 cm x 5.5 cm).

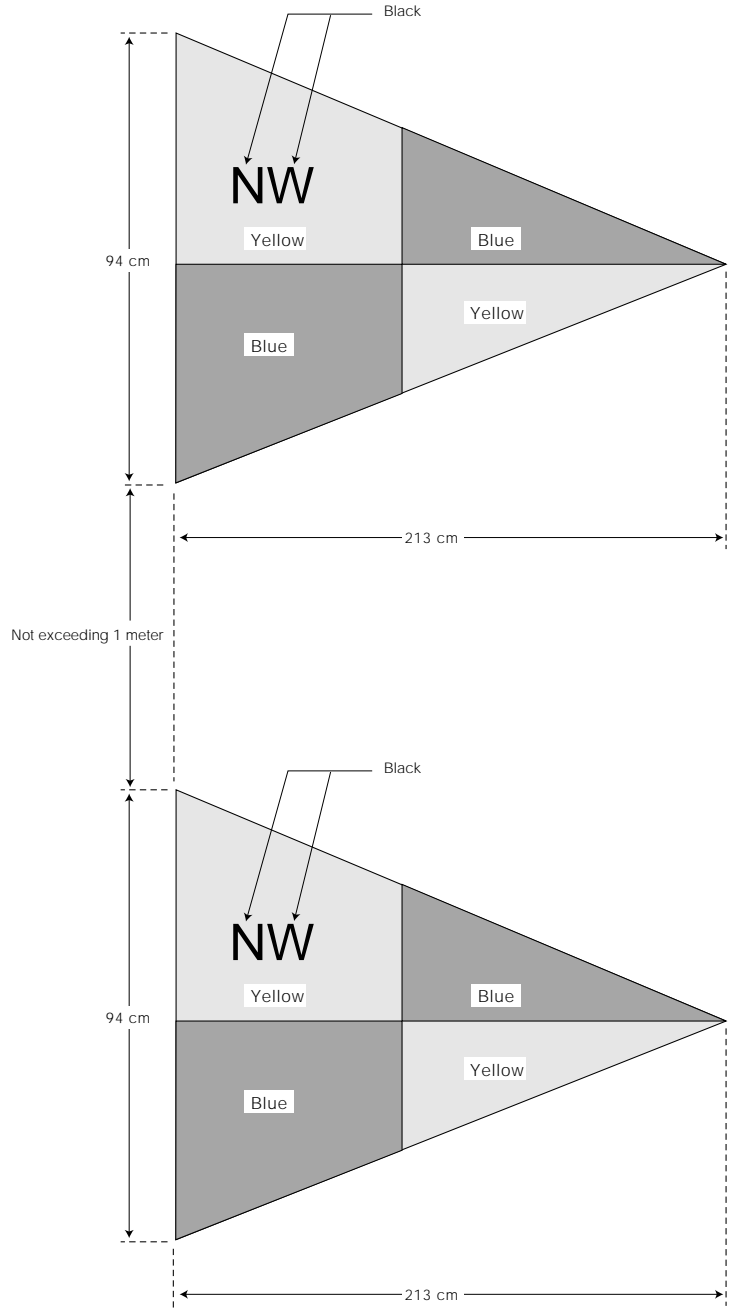
Front



Back



Annex XVII NAFO Inspection Pennants



**Annex XVIII
NAFO Inspection Seal**



The NAFO Inspection Seal shall be as follows:

Name	LOB TAG
Mark	"NAFO Inspection No. of six digits"
Material	polyethylene recyclable
Colour.....	orange
Melt index	6.70 + .60 (by international standard)
Density	953 + .003 (by international standard)
Breaking point (load).....	min. 45 kg (τ° 20°C)

Annex XIX

List of species of relevance for Chapter VI

Section A

Common English	Name Scientific Name
1. Atlantic cod	<i>(Gadus morhua)</i>
2. Atlantic redfish	<i>(Sebastes sp.)</i>
3. American plaice	<i>(Hippoglossoides platessoides)</i>
4. Yellowtail flounder	<i>(Limanda ferruginea)</i>
5. Witch flounder	<i>(Glyptocephalus cynoglossus)</i>
6. Capelin	<i>(Mallotus villosus)</i>
7. Greenland halibut	<i>(Reinhardtius hippoglossoides)</i>
8. Oceanic redfish	<i>(pelagic Sebastes mentella)</i>
9. Short-finned squid (<i>Illex</i>) (<i>Illex illecebrosus</i>)	
10. Shrimps	<i>(Pandalus sp.)</i>

Section B

Common English	Name Scientific Name
1. Haddock	<i>(Melanogrammus aeglefinus)</i>
2. Silver hake	<i>(Merluccius bilinearis)</i>
3. Red hake	<i>(Urophycis chuss)</i>
4. Pollock	<i>(Pollachius virens)</i>
5. Roundnose grenadier	<i>(Macrourus rupestris)</i>
6. Atlantic herring	<i>(Clupea harengus)</i>
7. Atlantic mackerel	<i>(Scomber scombrus)</i>
8. Atlantic butterfish	<i>(Peprilus triacanthus)</i>
9. River herring (alewife)	<i>(Alosa pseudoharengus)</i>
10. Atlantic argentine	<i>(Argentina silus)</i>
11. Long-finned squid (<i>Loligo</i>)	<i>(Loligo pealei)</i>
12. Wolffishes (NS)	<i>(Anarhichas sp.)</i>
13. Skates (NS)	<i>(Raja sp.)</i>

Annex XX

Rules on confidentiality

PROVISIONS ON SECURE AND CONFIDENTIAL TREATMENT OF ELECTRONIC REPORTS AND MESSAGES TRANSMITTED PURSUANT TO ARTICLES 21-22 OF THE CONSERVATION AND ENFORCEMENT MEASURES.

1. Field of application

The provisions set out below shall apply to all electronic reports and messages transmitted and received pursuant to Articles 21-22 of the Conservation and Enforcement Measures, hereinafter referred to as “reports and messages”.

2. General Provisions

- 2.1. The Executive Secretary and the appropriate authorities of Contracting Parties transmitting and receiving reports and messages shall take all necessary measures to comply with the security and confidentiality provisions set out in sections 3 and 4.
- 2.2. The Executive Secretary shall inform all Contracting Parties of the measures taken in the secretariat to comply with these security and confidentiality provisions.
- 2.3. The Executive Secretary shall take all the necessary steps to ensure that the requirements pertaining to the deletion of reports and messages handled by the Secretariat are complied with.
- 2.4. Each Contracting Party shall guarantee the Executive Secretary the right to obtain as appropriate, the rectification of reports and messages or the erasure of reports and messages the processing of which does not comply with the provisions of the Conservation and Enforcement Measures.
- 2.5. Notwithstanding the provisions in Article 21.8, the Fisheries Commission may instruct the Executive Secretary not to make available the reports and messages received under Article 21 and 22 to a Contracting Party, where it is established that the Contracting Party in question has not complied with these security and confidentiality provisions.

3. Provisions on Confidentiality

- 3.1. Reports and messages shall be used only for the purposes stipulated in the Conservation and Enforcement Measures. No report or message referred to in section 1 shall be kept in a computer database at the Secretariat unless explicitly provided for in the Conservation and Enforcement Measures.
- 3.2. Each inspecting Contracting Party shall make available reports and messages only to their means of inspection and their inspectors assigned to the Scheme of Joint International Inspection and Surveillance. Reports and messages shall be transmitted to the inspection platforms and inspectors not more than 48 hours prior to entry into the Regulatory Area.
- 3.3. The Executive Secretary shall delete all the original reports and messages referred to in section 1 from the database at the Secretariat by the end of the first calendar month following the year in which the reports and messages have originated. Thereafter the information related to the catch and movement of the fishing vessels shall only be retained by the Executive Secretary, after measures have been taken to ensure that the identity of the individual vessels can no longer be established.
- 3.4. The Executive Secretary shall not make available reports and messages to other parties than those specified explicitly in Article 21.8 of the Conservation and Enforcement Measures.
- 3.5. Inspecting Contracting Parties may retain and store reports and messages transmitted by the Secretary until 24 hours after the vessels to which the reports and messages pertain have departed from the

Regulatory Area without re-entry. Departure is deemed to have been effected six hours after the transmission of the intention to exit from the Regulatory Area.

4. Provisions on security

4.1 Overview

Inspecting Contracting Parties and the Secretariat shall ensure the secure treatment of reports and messages in their respective electronic data processing facilities, in particular where the processing involves transmission over a network. Contracting Parties and the Secretariat must implement appropriate technical and organisational measures to protect reports and messages against accidental or unlawful destruction or accidental loss, alteration, unauthorised disclosure or access, and against all inappropriate forms of processing.

The following security issues must be addressed from the outset:

- System access control:
The system has to withstand a break-in attempt from unauthorised persons.
- Authenticity and data access control:
The system has to be able to limit the access of authorised parties to a predefined set of data only.
- Communication security:
It shall be guaranteed that reports and messages are securely communicated.
- Data security:
It has to be guaranteed that all reports and messages that enter the system are securely stored for the required time and that they will not be tampered with.
- Security procedures:
Security procedures shall be designed addressing access to the system (both hardware and software), system administration and maintenance, backup and general usage of the system.

Having regard to the state of the art and the cost of their implementation, such measures shall ensure a level of security appropriate to the risks represented by the processing of the reports and the messages.

Security measures are described in more detail in the following paragraphs.

4.2 System Access Control

For their main computer systems the Contracting Parties and the Secretariat shall aim to meet the criteria of a C2-level trusted system, (as described in Section 2.2 of the U.S. Department of Defence Trusted Computer System Evaluation Criteria (TCSEC), DOD 5200.28-STD, December 1985).

The following features are some of the ones provided by a C2-level trusted system:

- A stringent password and authentication system. Each user of the system is assigned a unique user identification and associated password. Each time the user logs on to the system he/she has to provide the correct password. Even when successfully logged on the user only has access to those and only those functions and data that he/she is configured to have access to. Only a privileged user has access to all the data.
- Physical access to the computer system is controlled.
- Auditing; selective recording of events for analysis and detection of security breaches.
- Time-based access control; access to the system can be specified in terms of times-of-day and days-of-week that each user is allowed to login to the system.
- Terminal access control; specifying for each workstation which users are allowed to access.

4.3 **Authenticity and Data Access Security**

Communication between the Contracting Parties and the Secretariat for the purpose of the Conservation and Enforcement Measures shall use the X.25 Protocol. Where E-mail is used for general communication and reports outside the scope of provision 1. between the Secretariat and the Contracting Parties the X.400 Protocol or Internet shall be used.

4.4 **Communication Security**

If Contracting Parties and the Secretariat agree, the X.400 Protocol or the Internet can be used for communication of data under the Scheme, but then appropriate encryption protocols like "Pretty Good Privacy" (PGP) or "Digital Encryption Standard" (DES) shall be applied to ensure confidentiality and authenticity.

4.5 **Data Security**

Access limitation to the data shall be secured via a flexible user identification and password mechanism. Each user shall be given access only to the data necessary for his task.

4.6 **Security Procedures**

Each Contracting Party and the Executive Secretary shall nominate a security system administrator. The security system administrator shall review the log files generated by the software, properly maintain the system security, restrict access to the system as deemed needed and act as a liaison with the Secretariat in order to solve security matters.

ANNEX XXI (a)

1. Daily Catch Report for Pilot Project (CAX)

Data Element	Code	Mandatory / Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO
Sequence Number	SQ	M	Message detail; message serial number in current year
Type of Message	TM	M	Message detail; message type, "CAX" as Catch report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Contracting Party Internal Reference Number	IR	O	Vessel registration detail; unique Contracting Party vessel number as ISO-3 flag state code followed by number
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Relevant Area	RA	M	Activity detail: NAFO Division
Latitude	LA	M ¹	Activity detail; position at time of transmission
Longitude	LO	M ¹	Activity detail; position at time of transmission
Daily Catches species live weight	CA	M M	Activity detail; cumulative catch by species retained on board (exclusive of discards), either since commencement of fishing in R.A. ² or last "Catch" report, in pairs as needed. FAO species code Live weight in kilograms, rounded to the nearest 100 kilograms
Discarding species live weight	RJ	M	Activity detail; discarded catch by species, either since commencement of fishing in R.A. ² or last "Catch" report, in pairs as needed. FAO species code Live weight in kilograms, rounded to the nearest 100 kilograms
Undersize species live weight	US	M	Activity detail; undersize catch by species, either since commencement of fishing in R.A. ² or last "Catch" report, in pairs as needed. FAO species code Live weight in kilograms, rounded to the nearest 100 kilograms
Date	DA	M	Message detail; date of transmission
Time	TI	M	Message detail; time of transmission
End of record	ER	M	System detail; indicates end of the record

1 Optional if a vessel is subject to satellite tracking

2 Meaning the first "Catch Report" in current fishing trip in the R.A.

2. Observer Report (OBR)

Data Element	Code	Mandatory / Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO
Sequence Number	SQ	M	Message detail; message serial number in current year
Type of Message	TM	M	Message detail; message type, "OBR" as Observer report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Fishing Gear	GE	M	Activity detail; FAO code for fishing gear
Directed Species ⁷	DS	M	Activity detail; FAO species code
Mesh Size	ME	M	Activity detail; average mesh size in millimeters
Relevant Area	RA	M	Activity detail; NAFO Division
Daily Catches	CA	M M	Activity detail; cumulative catch by species retained on board, (exclusive of discards), either since commencement of fishing in R.A. ² or last "Catch" report, in pairs as needed. species live weight FAO species code Live weight in kilograms, rounded to the nearest 100 kilograms
Discarding	RJ	M ¹	Activity detail; discarded catch by species, either since commencement of fishing in R.A. ² or last "Catch" report, in pairs as needed. species live weight FAO species code Live weight in kilograms, rounded to the nearest 100 kilograms
Undersize	US	M ¹	Activity detail; undersize catch by species, either since commencement of fishing in R.A. ² or last "Catch" report, in pairs as needed. species live weight FAO species code Live weight in kilograms, rounded to the nearest 100 kilograms
Log Book	LB	M	Activity detail; "Yes" or "No" ³
Production	PR	M	Activity detail; code for the production
Hails	HA	M	Activity detail; observers verification if the reports made by the captain are correct, "Yes" or "No" ⁴
Apparent Infringements	AF	M	Activity detail; "Yes" or "No" ⁵
Observer Name	ON	M	Message detail; name of the observer signing the report
Date	DA	M	Message detail; date of transmission
Free Text	MS	O ⁶	Activity detail; for further comments by the observer
Time	TI	M	Message detail; time of transmission
End of record	ER	M	System detail; indicates end of the record

1. Only to be transmitted if relevant
2. Meaning the first "Catch Report" in current fishing trip in the R.A.
3. "Yes" if the observer approves the Log Book entries by the captain
4. "Yes" if the observer approves the Hails transmitted by the captain
5. "Yes" if an infringement is observed
6. Mandatory if "LB" = "No", or "HA" = "No", or "AF" = "Yes".
7. Directed species is the species which represents the greatest catch for that day

ANNEX XXI (b)

Data to be compiled by Executive Secretary and Forwarded to Inspection Parties

Catch and Catch Rate Report (Weekly)

Vessel Type	Division	Species	Total Catch	Total Effort	Catch Rate
With observer – Masters					
With observer – observer					
Without observer					

By-catch Report (Weekly)

Vessel Type	Division	Species	Total Catch	Total Overall Catch	By-Catch %
With observer – Masters					
With observer – observer					
Without observer					

Discards Report (Weekly)

Vessel Type	Division	Species	Total catch	Total Discards	Discard %
With observer – Masters					
With observer – observer					
Without observer					